

ABC TAIWAN ELECTRONICS CORP. is one of the leading manufacturers for high quality inductors and transformers. We specialize in manufacturing and marketing many types of electromagnetic products for various industries — Telecommunication, Computer, Consumer products, Office automation equipments, Automotive, etc.

In 1979, thirty-eight years ago, ABC was established in YANGMEI district. People here are diligent and hardworking. We gathered a competent and dedicated team applying the latest technology to cater design-in parts, deliver high level of services, and provide good quality products for our customers.

Our innovative product development allows us to offer fast service, excellent quality parts and competitive price to match our customers' needs. ABC's ultimate goal is to achieve total customer satisfaction through continuous improvement and development.



ARBUTUS (YANGMEI), in Chinese) a beautiful, luxuriant and whole year green tree, 160 years ago, immigrants arrived here, they found all the field in this valley were **ARBUTUS (YANGMEI)**, so, they called this town—**YANGMEI**.

Company History

- 1979** • **ABC TAIWAN ELECTRONICS CORP.** was founded in Hsiotsai Rd., Yangmei, Taiwan capital NT\$ 5,800,000 (US\$145,000) and 5 employee Started producing choke coil in Sep.
- 1980** • Moved to Kuanghwa St., Yangmei, and 15 employee.
 - Land acquisition of present location.
- 1981** • Started factory building construction.
 - Acquired the second prize of good supplier from CANON.
- 1982** • Factory building completed and Axial Lead Choke Coils conformal coating auto processing line initialed.
 - Capital increase to NT\$6,115,000 (US\$ 152,875) and forty-seven employee.
- 1983** • Started exporting business.
 - Assigned Singapore Agent-SEAMAX ENGINEERING.
- 1984** • EMI Filter and DC-DC Converter entered U.S.A., Singapore & UK Market.
 - Started the R/D for EMI Filters and DC-DC CONVERTERS entered U.S.A., Singapore & UK Market.
- 1985** • DC-DC CONVERTERS started producing and exported Canada.
 - EMI filters SIF series obtained UL&CSA approved.
 - Established subsidiary-ACE ENGINEERING & TRADING CORP. (AET)
- 1986** • SMD Transformer & Pulse Transformers were developed.
 - Japan Associate-OEL Corp. Strategic Alliance started.
 - Started SWITZERLAND, INDIA, NEW ZEALAND business.
 - Capital increase to NT\$ 10 Million (US\$ 286,000).
 - Subsidiary AET started Inductor Turn-Key Equipments exporting.

- 1987**
 - Set up Hsinwu Workshop.
 - EMI filter SAF series obtained UL & CSA approved.
 - Started SMD CHIP INDUCTOR Research and develop.
 - Employee Beneficial Shares Joining System implemented.
 - Plant Land increased to 1,731m².
 - Starting Stock Initial Public Offer (IPO) process.
- 1988**
 - Set up Kuanhsi Workshop.
 - SMD Chip Inductors production started and entered Germany & S. Africa market.
- 1989**
 - Assigned Italy Agent — ESCO ITALIAN SPA, Enter Italy market.
 - Started to sell to Japanese market in ABC brand name.
 - Started sub-contractor operation in China, Jiangyang Xunta Electronics.
- 1990**
 - New design CM series Wound Chip Inductor R&D completed and started production.
 - SMD Balun Transformers R&D completed and sell to Spanish market.
 - Shanghai Radio No. 28 Factory Inductor Turn-key Equipment Installation completed. (1991.12.24)
 - Capital increased to NT 29,500,000 (USD840,000).
 - Started to sell to Matsushita group and Australia Market.
- 1991**
 - Started to sell Chip Inductor to CONNER, NEC, and SCI.
 - CM series was awarded 4 years tax exemption from Taiwan government.
 - CM series Chip Inductors patent certificated in Germany #G9108527.6 and Taiwan #66599.
 - Launched Europe market for High Freq Transformer.
 - Singapore Branch Office operation launched.
- 1992**
 - SMD Chip Filter Bead R&D completed.
 - CM series Chip Inductors patent certificated in China #74785.
 - SMD Balun Transformer patent certificated in Taiwan #74202.
 - ABC SMD Inductors & Production Technique Seminar. (1992.4.10)
- 1993**
 - SMD Balun Transformers patent certificated in China #132614.
 - SMD Chip Bead patent certificated in Taiwan #82700.
 - Acquired the Good Supplier Award from VERIFONE.
- 1994**
 - SMD Power Inductors and SMD Chip Beads patent certificated in China #159522/#15878.
 - Established U.S.A. subsidiary — ABC America Electronics Corp. in Phoenix.
 - ABC Electronics Hangzhou Factory grand opening. (1994.01.01)
 - ABC Electronics Suzhou Factory grand opening. (1994.01.02)
- 1995**
 - China factory — ABC ELECTRONICS (PANYU) CORP. Starting Production. (Mar. 29, 1995)
 - Started production & delivery SR series SMD Power Inductors.
- 1996**
 - Taiwan factory obtained ISO-9002 certificated by BVQI#14195.
 - Established ABC Shanghai Office.
- 1997**
 - Initiated European regional operation in France.
 - Moved ABC America Electronics Corp. from Phoenix to San Jose Silicon valley.
 - CM series Chip Inductors patent certificated in Korea #110326.
 - China factory obtained ISO-9002 certificated by TUV#02980131391001. (1997.12)
- 1998**
 - Started building construction for Panyu factory #2. (1998.6.12)
 - SR Glazing Terminal patented in Taiwan.
 - SE 0807 series meet EN60950 safety requirement certificated by TUV#B980833843001.

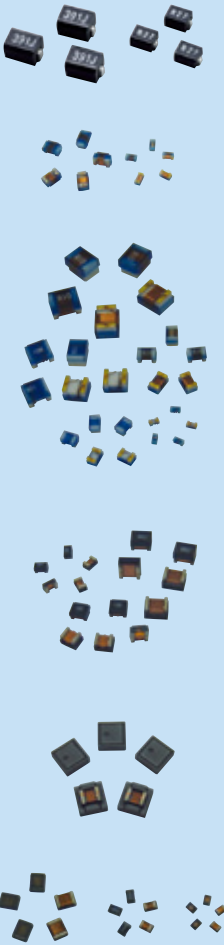
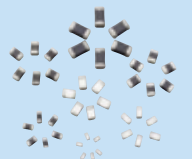
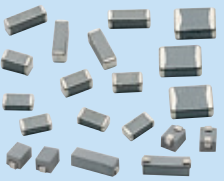
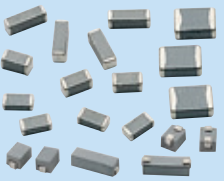
- 1999**
 - SR series SMD Power Inductors Glazing Based Termination patent certificated in Taiwan #101212.
 - Glazing Based Termination patent Power Inductor successful design-in and approved by Siemens, as the sole source for mobile phone.
- 2000**
 - ABC Electronics (Panyu) CORP. 2nd factory grand opening.
 - SR series SMD Power Inductors patent certificated in USA #US6197434B1, Korea #188836 and China #380997.
 - Started Taiwan HQ building expansion.
 - Starting Stock Initial Public Offer (IPO) process.
 - Overall Employee beneficial share system started.
 - Acquired the Good Supplier Award from Garmin.
- 2001**
 - Established Material Laboratory.
 - Acquired the 10th NATIONAL AWARD OF SMALL AND MEDIUM ENTERPRISES.
- 2002**
 - Taiwan factory obtained ISO9001 certificated by BVQI#64016.
 - Developed Fecera (Ferrite-Ceramic Complex Material).
 - Developed MPC (Micro-porous Ceramic) Material and applied MPC for High Frequency Capacitor study.
 - Initiated the Thermal Solution development with MPC material.
 - ABC Shanghai(marketing-production-R/D center)start construct, Dec. 14th, 2002.
 - Stock Initial Public Offering (IPO), Dec. 27th, 2002.
- 2003**
 - Taiwan factory obtained ISO-14001 certificated by SGS#03/0337EM.
 - Ceramic Heat Sink With Micro-pores Structure patent in Korea #0334328.
 - Inductors structure improve patent in Korea #0327820, and Japan #3098537.
- 2004**
 - Established ABC Beijing Office.
 - MPC for High Frequency Capacitor patent certificated in Taiwan #188853𳒱.
 - Ceramic Heat Sink With Micro-pores Structure patent in Taiwan #189036, #213446𵲿.
 - Ceramic Heat Sink With Micro-pores Structure patent in Germany #20314728.6, Japan #3100267 & USA #US6705393B1.
 - Inductors structure improve patent in Taiwan #216139.
 - ABC Electronics (Shanghai) Factory. Started production.
 - Became a public trade company, Stock Listed in Taiwan Greta (OTC) Securities Market.
- 2005**
 - ERP SAP Implementation.
 - Design-in with MIMO Wi-Fi network products, Gain access to Wireless Networks industry.
 - Set up Auto Soldering Machine and Auto Toroid Winding Machine, starting key process automation.
- 2006**
 - Planar Transformer PT146S, 187S & 259S were developed.
 - LED EEP & MPC MR16 Lamp were developed.
 - TS 16949 Automotive Component Factory Certification passed.
 - ABC Shanghai certified ISO 9001.
- 2007**
 - E-Enterprise Process System "Agentflow Enterprise Process Portal" — Quality Complain Processing System introduced. (Feb.)
 - LED Lighting Devices with High Heat Sinking Performance Patent certificated in Taiwan #313210. (Jun.1, 2007)
 - AES (Shanghai Factory) Belt Conveyor Production Line Completed and Started ABC's Non-stop Full Line Flowing.
 - Production. (Jun,2007); AGZ (Guangzhou Factory) implement as well. (started Sept. 2007)
 - Cash Capital Raising 4 million Shares. (July)
 - High Power Low Profile Shielded Inductor Patent certificated in Japan #3136235. (Aug. 8, 2007)
 - Planar Transformer Patent certificated in Taiwan #317640. (Aug. 21, 2007)
 - LED Lighting Devices with High Heat Sinking Performance certificated in China #ZL 2006 2017 6020.5. (Nov. 1, 2007)

- 2008**
 - Micromesh (Micro-pores) Material Producing Method Patent certificated in China #ZL 02 1 49137.2. (Aug. 6, 2008)
 - Set up Precision Metal Parts Div., Factory located in Pingjhen Industrial Park. (Jan. 1, 2008)
 - ABC Shanghai 2nd stage facility operation Started.
 - Opto-elec & Mechanic Components Div. launched 5 new models LED Shaped Lamps, and, Stared OEM/ODM business. (Apr.)
 - MES (Manufacturing Executive System) introduced into Shanghai factory. (Nov.)
- 2009**
 - Changed organization structure, added CTO and COO in charge of R&D and Operation.
 - Established Yangmei manufacturing dept., Started HP series production.
 - Battery Cap improvement awarded patent in Taiwan.
 - Battery Cap improvement (1) awarded patent in Taiwan.
- 2010**
 - MPC Heatsink was designed in the Samsung 2.8 cm Super Slim LED TV, Samsung launched it in Q1.
 - Combined AOE (Opto-elec & Material Div) and APM (Precision Metal Parts Div.) to establish Mechanical Parts Div. (AMP) in Pingjhen factory.
 - Achieved Record High Sales in Aug 2010.
 - Celebrated the 31st Anniversary of ABC. Overseas and domestic stakeholders join the celebration concert, ceremony party and banquet. (2010/12/02)
- 2011**
 - Acquire China patent for Planar Electro-acoustic Transducer for sound signal driver.
 - AOBA Technology Malaysia Joint Venture contract Signed (2011/10/27) and starting the business transfer.
 - First Convertible Bond (CB) issue.
 - Establish Boro Chienmau Metal Parts Plant (ACM) for electroplating production line. (2011.4.8)
 - Silver Paste Research Plan with NCKU. (2011.7.1)
 - Patent for Coaxial connector in China.
- 2012**
 - Establish material lab in Guangzhou Factory. (2012.01.01)
 - Officially take over AOBA Technology as a subsidiary. (2012.04.01)
 - Acquire Taiwan Patent for Capacitive Electro-acoustic Transducer for sounds signal driver in Taiwan. (2012.05.01)
- 2013**
 - SAP introduced to AOBA Technology. (2013.01.01)
 - Customer approval for contract manufacturer with integrated mass production process and quality control.
 - New Product MFU8048, MFU1048, MFU1245.
- 2014**
 - MCU product enter automotive market.
 - For Ethernet Application Common Mode.
 - Choke patented core mass production.
 - Sagemcom Efficiency No.2 Award Efficiency Award.
- 2015**
 - Marketing in IC Design in method and promoting self branded products.
 - Bolou metal parts move to Zhongsan factory
 - ATM improve loading rate and introduce AOI visual inspection. ASF mass production. DP production line finished and promoted to market.
 - Quality System certified ISO 9001:2015.
- 2016**
 - ABC Shanghai and Malaysia certified TS16949.

INDEX SMD Inductive Component



Unit: mm

Figure	Series	Installation space	Heighe	Inductance		Rated D.C.Current		Page
Wound Chip Inductor 	CM3225-L	3.20 x 2.50	2.20	0.12 uH	→ 150 uH	0.45 A	→ 65 mA	1
	CM4532-L	4.50 x 3.20	3.20	0.10 uH	→ 1.0 mH	0.80 A	→ 30 mA	1
	CC3225-L	3.20 x 2.50	2.20	1.0 uH	→ 100 uH	0.77 A	→ 75 mA	1
	CC4532-L	4.50 x 3.20	3.20	1.0 uH	→ 680 uH	1.05 A	→ 65 mA	1
	SWI0402 CT	1.00 x 0.55	0.50	1.0 nH	→ 120 nH	1.36 A	→ 0.11 A	7
	SWI0603 CS	1.65 x 1.15	0.90	1.6 nH	→ 390 nH	0.70 A	→ 0.13 A	15
	SWI0603 CT	1.60 x 1.05	1.05	1.6 nH	→ 390 nH	0.70 A	→ 0.17 A	7
	SWI0805 CS	2.28 x 1.70	1.28	2.7 nH	→ 1.80 uH	0.80 A	→ 0.12 A	15
	SWI0805 CT	2.00 x 1.25	1.20	2.2 nH	→ 390 nH	0.80 A	→ 0.21 A	7
	SWI0805 FT	2.00 x 1.25	1.20	0.47 uH	→ 10 uH	0.50 A	→ 80 mA	19
	SWI1008 CT	2.60 x 2.10	1.70	3.3 nH	→ 1.0 uH	1.00 A	→ 0.12 A	7
	SWI1008 FT	2.60 x 2.10	1.70	0.47 uH	→ 47 uH	0.50 A	→ 45 mA	19
	SWI1210 CT	3.20 x 2.60	2.10	4.7 nH	→ 2.2 uH	1.00 A	→ 0.15 A	7
	SWI1210 FT	3.20 x 2.60	2.10	1.2 uH	→ 47 uH	0.39 A	→ 60 mA	19
	SWI0402 HP	1.00 x 0.55	0.50	2.0 nH	→ 68 nH	2.10 A	→ 0.32 A	23
	SWI0603 HP	1.80 x 1.12	1.02	1.7 nH	→ 390 nH	2.10 A	→ 0.18 A	23
	HCI0805 FT	2.30 x 1.50	1.20	0.47 uH	→ 47 uH	1.10 A	→ 0.15 A	27
	SWI1008 CT-KI	2.60 x 2.10	1.70	0.47 uH	→ 1.0 uH	0.47 A	→ 0.37 A	29
	SWI1008 FT-KI	2.60 x 2.10	1.70	1.2 uH	→ 10 uH	0.76 A	→ 0.30 A	29
	SWI1008 HQ	2.60 x 2.10	1.70	3.0 nH	→ 100 nH	1.60 A	→ 1.00 A	31
Multilayer Chip Inductor 	SWI1008 PT	3.60 x 3.60	2.50	1.0 uH	→ 1.0 mH	1.00 A	→ 30 mA	33
	LPI0603 FT	1.60 x 1.05	1.05	1.0 uH	→ 12 uH	0.68 A	→ 0.19 A	35
	LPI0805 FT	2.00 x 1.25	1.20	1.0 uH	→ 22 uH	0.75 A	→ 0.15 A	35
	LPI1210 FT	3.20 x 2.50	1.20	2.2 uH	→ 33 uH	0.80 A	→ 0.22 A	35
Thin Film Chip Inductor 	MH1005-L	1.00 x 0.50	0.50	1.0 nH	→ 100 nH	0.40 A	→ 0.10 A	38
	MH1608-L	1.60 x 0.80	0.80	1.0 nH	→ 220 nH	0.60 A	→ 0.25 A	38
	MS1608-L	1.60 x 0.80	0.80	47 nH	→ 10 uH	50 mA	→ 3 mA	42
	MS2029-L	2.00 x 1.20	0.90	47 nH	→ 2.2 uH	0.30 A	→ 30 mA	45
	MS2022-L	2.00 x 1.20	1.20	2.7 uH	→ 6.8 uH	30 mA	→ 15 mA	45
Multilayer Chip Bead 	AL0603-L	0.60 x 0.30	0.23	1.0 nH	→ 10 nH	0.30 A	→ 80 mA	48
	AL1005-L	1.00 x 0.50	0.32	0.2 nH	→ 33 nH	0.80 A	→ 75 mA	48
Figure	Series	Installation space	Heighe	Impedance		Rated D.C.Current		Page
Multilayer Chip Bead 	SM1608-L	1.60 x 0.80	0.80	5 Ω	→ 30 Ω	0.60 A	→ 0.40 A	52
	SM2029-L	2.00 x 1.20	0.90	7 Ω	→ 11 Ω	0.60 A	→ 0.60 A	52
	MU1005-L	1.00 x 0.50	0.50	30 Ω	→ 600 Ω	0.50 A	→ 0.10 A	54
	M□1608-L	1.60 x 0.80	0.80	40 Ω	→ 2.0 KΩ	0.30 A	→ 50 mA	56
	M□2029-L	2.00 x 1.20	0.90	40 Ω	→ 2.0 KΩ	0.30 A	→ 0.2 mA	56
	MB1608-L	1.60 x 0.80	0.80	30 Ω		3.00 A		60
	MB2029-L	2.00 x 1.20	0.90	7 Ω	→ 30 Ω	3.00 A	→ 3.00 A	60
	MB4030-L	4.60 x 3.00	2.85	47 Ω		5.00 A		62
	MB8530-L	9.00 x 3.00	2.85	90 Ω		5.00 A		62

CM

MH

SM

MB

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Unit: mm

SR

Figure	Series	Installation space	Heighe	Inductance		Rated D.C.Current		Page
	SR0302-L	3.00 x 2.80	2.50	1.0 uH	→	1.2 mH	2.10 A → 60 mA	64
	SR0403-L	4.50 x 4.00	3.20	1.0 uH	→	1.0 mH	3.80 A → 90 mA	64
	SR0502-L	5.00 x 4.50	2.00	100 uH	→	2.7 mH	0.27 A → 53 mA	64
	SR0503-L	5.00 x 4.50	3.00	0.5 uH	→	15 mH	4.00 A → 20 mA	64
	SR0602-L	5.60	2.50	1.0 uH	→	1.0 mH	4.50 A → 80 mA	70
	SR0603-L	5.60	3.70	1.5 uH	→	470 uH	3.00 A → 0.15 A	70
	SR0805-L	7.50	5.00	1.5 uH	→	4.7 mH	7.20 A → 0.15 A	74
	SR0906-L	10.50 x 12.70	6.00	2.2 uH	→	10 mH	4.00 A → 40 mA	78
	SR1006-L	9.50	5.50	1.5 uH	→	4.7 mH	6.40 A → 0.10 A	74

BR

	BR0604-L	5.60 x 5.20	4.50	1.2 uH	→	820 uH	4.40 A → 0.24 A	81
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SQ

	SQ3216-3	3.20 x 1.60	1.85	0.12 uH	→	100 uH	0.97 A → 80 mA	84
	SQ3225-L	3.20 x 2.50	2.00	1.0 uH	→	560 uH	0.60 A → 40 mA	86
	SQ4532-L	4.50 x 3.20	2.60	1.0 uH	→	2.2 mH	1.40 A → 30 mA	86
	SQ5650-L	5.70 x 5.00	4.70	0.47 uH	→	10 mH	4.80 A → 50 mA	90

SB

	SB7030-L	7.00 x 7.00	3.00	1.0 uH	→	1.0 mH	3.00 A → 0.15 A	93
	SB7045-L	7.00 x 7.00	4.50	1.2 uH	→	1.0 mH	3.80 A → 0.22 A	93
	SB1005-L	10.00 x 12.70	5.00	1.0 uH	→	10 mH	7.50 A → 0.10 A	96
	SB1608-2	6.60 x 4.45	2.92	1.0 uH	→	1.0 mH	2.90 A → 70 mA	98
	SB0805-F	8.00 x 10.50	5.00	3.3 uH	→	330 uH	5.00 A → 0.46 A	100
	SB1806-L	14.00 x 18.20	6.60	1.0 uH	→	1.0 mH	10.0 A → 0.50 A	102
	SB2207-L	22.00 x 15.00	7.00	0.8 uH	→	100 uH	16.0 A → 2.00 A	104

	CB2010-L	2.00 x 2.00	1.00	0.47 uH	→	22.0 uH	1.60 A → 0.20 A	106
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TPI

	TPI2410 CT	2.40 x 2.40	1.00	0.68 uH	→	22 uH	2.50 A → 0.40 A	108
	TPI2510 CT	2.50 x 2.00	1.00	0.47 uH	→	10 uH	2.65 A → 0.55 A	110
	TPI2512 CT	2.50 x 2.00	1.20	0.47 uH	→	10 uH	2.15 A → 0.59 A	110
	TPI2515 CT	2.50 x 2.00	1.50	0.47 uH	→	10 uH	2.80 A → 0.75 A	110
	TPI3010 CT	3.00 x 3.00	1.00	1.0 uH	→	100 uH	2.30 A → 0.18 A	112
	TPI3012 CT	3.00 x 3.00	1.20	1.0 uH	→	47 uH	1.71 A → 0.35 A	114
	TPI3015 CT	3.00 x 3.00	1.50	1.0 uH	→	100 uH	2.30 A → 0.30 A	114
	TPI4018 CT	4.00 x 4.00	1.80	0.82 uH	→	220 uH	4.00 A → 0.28 A	116
	TPI4025 CT	4.00 x 4.00	2.50	1.0 uH	→	220 uH	3.00 A → 0.20 A	118
	TPI5020 CT	5.00 x 5.00	2.00	1.0 uH	→	33 uH	3.60 A → 0.90 A	120
	TPI5040 CT	5.00 x 5.00	4.00	1.5 uH	→	47 uH	3.60 A → 0.90 A	122
	TPI6020 CT	6.00 x 6.00	2.00	0.5 uH	→	47 uH	5.20 A → 0.80 A	124
	TPI6028 CT	6.00 x 6.00	2.80	0.9 uH	→	100 uH	4.60 A → 0.66 A	124
	TPI6045 CT	6.00 x 6.00	4.50	1.0 uH	→	220 uH	6.50 A → 0.50 A	126

RN

	RN6045-F	6.00 x 6.00	4.50	1.0 uH	→	100 uH	4.20 A → 0.70 A	128
	RN8040-L	8.00 x 8.00	4.00	0.5 uH	→	100 uH	10.00 A → 1.00 A	128
	RN1060-L	9.80 x 10.00	6.00	1.5 uH	→	470 uH	10.00 A → 0.80 A	128

INDEX SMD Inductive Component



Unit: mm

Figure	Series	Installation space	Heighe	Inductance		Rated D.C.Current		Page
	SU4018-L	4.30 x 4.50	1.80	1.2 uH	→ 100 uH	2.70 A	→ 0.32 A	132
	SU5016-L	5.20 x 5.20	1.60	1.8 uH	→ 100 uH	1.75 A	→ 0.30 A	134
	SU5018-L	5.20 x 5.20	1.80	1.0 uH	→ 100 uH	2.80 A	→ 0.32 A	134
	SU5028-L	5.20 x 5.20	2.80	1.2 uH	→ 100 uH	3.50 A	→ 0.47 A	134
	SU6018-F	6.20 x 6.50	1.80	1.2 uH	→ 100 uH	3.60 A	→ 0.55 A	138
	SU6025-F	6.20 x 6.50	2.50	1.2 uH	→ 220 uH	4.00 A	→ 0.42 A	138
	SU8028-F	8.00 x 8.00	2.80	2.5 uH	→ 100 uH	4.50 A	→ 0.75 A	141
	SU8030-F	8.00 x 8.00	2.80	3.3 uH	→ 100 uH	5.00 A	→ 0.85 A	144
	SU8040-F	8.00 x 8.00	3.80	3.3 uH	→ 150 uH	6.00 A	→ 0.90 A	144
	SU8043-F	8.00 x 8.00	4.30	1.0 uH	→ 100 uH	6.60 A	→ 1.00 A	141
	SU8058-F	8.00 x 8.00	5.80	3.9 uH	→ 100 uH	6.50 A	→ 1.70 A	144
	SU1028-F	10.00 x 10.00	2.80	1.0 uH	→ 150 uH	7.00 A	→ 0.65 A	149
	SU1030-F	10.00 x 10.00	2.80	3.5 uH	→ 150 uH	5.00 A	→ 0.85 A	144
	SU1038-F	10.00 x 10.00	3.80	1.5 uH	→ 330 uH	7.20 A	→ 0.55 A	149
	SU1040-F	10.00 x 10.00	3.80	3.8 uH	→ 330 uH	6.60 A	→ 0.62 A	144
	SU1048-F	10.00 x 10.00	4.80	0.8 uH	→ 330 uH	7.80 A	→ 0.65 A	149
	SU1065-F	10.00 x 10.00	6.60	2.8 uH	→ 100 uH	6.50 A	→ 1.80 A	144
	DP2016-S	2.00 x 1.60	1.00	0.47 uH	→ 4.70 uH	3.10 A	→ 0.95 A	153
	SH6022-L	6.80 x 6.80	2.30	0.9 uH	→ 1.0 mH	4.80 A	→ 0.16 A	155
	SH6028-L	6.80 x 6.80	2.80	2.5 uH	→ 1.0 mH	2.80 A	→ 0.15 A	158
	DH3016-F	4.00 x 4.00	1.60	0.47 uH	→ 33 uH	3.20 A	→ 0.43 A	160
	DH3025-F	4.00 x 4.00	2.50	1.0 uH	→ 33 uH	2.30 A	→ 0.40 A	160
	DH3040-F	4.00 x 4.00	4.00	0.5 uH	→ 220 uH	3.51 A	→ 0.25 A	160
	DH6022-F	7.00 x 7.00	2.50	2.2 uH	→ 100 uH	4.50 A	→ 0.81 A	160
	DH6038-F	7.00 x 7.00	4.00	1.0 uH	→ 100 uH	5.00 A	→ 0.65 A	164
	SS1608-L	6.50 x 4.40	2.90	1.0 uH	→ 10 mH	3.00 A	→ 20 mA	166
	SS4530-L	6.50 x 4.40	3.05	1.0 mH	→ 10 mH	0.10 A	→ 10 mA	166
	SS0603-L	6.50 x 6.50	3.10	1.5 uH	→ 1.0 mH	2.20 A	→ 0.10 A	169
	SS0604-L	6.50 x 6.50	4.60	1.5 uH	→ 1.0 mH	2.80 A	→ 0.12 A	169
	SS0805-F	8.00 x 10.50	4.50	2.2 uH	→ 1.0 mH	2.50 A	→ 0.15 A	172
	SS6028-L	6.00 x 6.00	2.80	1.0 uH	→ 1.0 mH	3.80 A	→ 0.11 A	174
	SS6038-L	6.00 x 6.00	3.80	1.0 uH	→ 1.0 mH	3.70 A	→ 0.14 A	174
	SS7032-L	7.00 x 7.00	3.20	3.3 uH	→ 1.0 mH	2.40 A	→ 0.15 A	177
	SS7045-L	7.00 x 7.00	4.50	1.0 uH	→ 1.0 mH	3.50 A	→ 0.25 A	177
	SS1003-L	10.00 x 12.70	2.70	1.8 uH	→ 470 uH	3.00 A	→ 0.16 A	180
	SS1005-L	10.00 x 12.70	4.90	1.0 uH	→ 3.3 mH	4.50 A	→ 0.10 A	180
	SS1806-L	14.00 x 18.20	6.80	10 uH	→ 1.0 mH	4.00 A	→ 0.45 A	180
	SS1205-P	12.70 x 12.70	5.00	2.5 uH	→ 820 uH	5.00 A	→ 0.30 A	185
	SS1206-P	12.70 x 12.70	6.00	2.5 uH	→ 1.5 mH	6.20 A	→ 0.20 A	185
	SS1208-P	12.70 x 12.70	8.00	2.5 uH	→ 1.5 mH	7.80 A	→ 0.36 A	185
	SS1240-L	12.50 x 12.50	4.00	1.0 uH	→ 1.0 mH	9.30 A	→ 0.42 A	190
	SS1260-F	12.50 x 12.50	6.00	1.0 uH	→ 1.0 mH	9.40 A	→ 0.68 A	190
	SS1280-F	12.50 x 12.50	7.50	1.1 uH	→ 1.0 mH	10.20 A	→ 0.68 A	190
	SS1258-F	12.00 x 12.00	6.00	1.0 uH	→ 1.0 mH	8.00 A	→ 0.68 A	195
	SS1278-F	12.00 x 12.00	8.00	1.4 uH	→ 1.0 mH	10.00 A	→ 0.68 A	195
	SS1210-F	12.00 x 12.00	10.00	1.0 uH	→ 1.0 mH	11.00 A	→ 0.75 A	199

SU

DP

SH

DH

SS

INDEX SMD Inductive Component



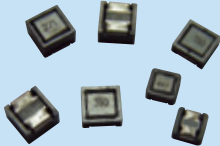
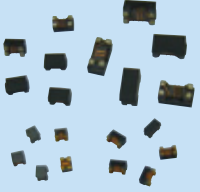
Unit: mm

	Figure	Series	Installation space	Height	Inductance		Rated D.C.Current		Page
BS	Shielded SMD Power Inductor 	BS0703-F	7.30 x 7.30	3.50	10 uH	→	1.0 mH	2.10 A → 0.17 A	202
		BS0704-F	7.30 x 7.30	4.50	1.0 uH	→	1.0 mH	5.00 A → 0.20 A	202
	Shielded SMD Power Inductor 	BS0906-L	13.50 x 10.50	6.00	2.7 uH	→	10.0 mH	3.20 A → 0.07 A	206
CS	Shielded SMD Power Inductor 	CS0703-L	7.60 x 7.60	3.55	1.5 uH	→	1.0 mH	4.50 A → 0.17 A	209
		CS0704-L	7.60 x 7.60	4.55	3.3 uH	→	1.0 mH	3.50 A → 0.20 A	209
		CS1205-L	12.00 x 12.00	5.00	10 uH	→	1.0 mH	4.90 A → 0.40 A	213
		CS1206-L	12.50 x 12.50	6.00	10 uH	→	1.0 mH	4.80 A → 0.50 A	213
		CS1208-L	12.50 x 12.50	8.00	2.5 uH	→	1.5 mH	7.10 A → 0.50 A	213
		CS1240-L	12.50 x 12.50	4.50	10 uH	→	1.0 mH	3.50 A → 0.40 A	218
		CS1260-L	12.00 x 12.00	6.00	10 uH	→	1.0 mH	5.20 A → 0.70 A	218
		CS1280-L	12.00 x 12.00	8.00	1.1 uH	→	1.0 mH	10.20 A → 0.55 A	218
CU	Shielded SMD Power Inductor 	CU8030-L	8.00 x 8.20	2.80	3.3 uH	→	100 uH	4.80 A → 0.85 A	233
		CU8043-L	8.00 x 8.20	4.40	0.47 uH	→	100 uH	8.65 A → 1.20 A	233
		CU1038-L	10.00 x 10.20	3.80	3.3 uH	→	330 uH	7.00 A → 0.60 A	233
		CU1048-L	10.00 x 10.20	4.80	0.8 uH	→	330 uH	9.50 A → 0.73 A	233
		CU1206-L	12.00 x 12.40	5.80	1.5 uH	→	1.0 mH	11.50 A → 0.60 A	233
HC	Shielded SMD Power Inductor 	HC0312-S	3.10 x 3.40	1.20	0.47 uH	→	2.2 uH	6.10 A → 2.90 A	230
		HC0412-S	4.10 x 4.40	1.20	0.47 uH	→	4.7 uH	7.60 A → 2.30 A	230
		HC0512-S	5.10 x 5.40	1.20	0.47 uH	→	4.7 uH	8.30 A → 2.70 A	230
		HC0612-S	6.70 x 7.10	1.20	0.47 uH	→	4.7 uH	8.30 A → 3.10 A	230
HP	Shielded SMD Power Inductor 	HP0603-P	7.20 x 6.50	3.00	0.1 uH	→	10 uH	32.50 A → 3.00 A	232
		HP0603-2	7.20 x 6.50	3.00	0.1 uH	→	10 uH	32.00 A → 3.00 A	232
		HP0604-L	7.20 x 6.50	4.00	0.56 uH	→	10 uH	18.00 A → 4.00 A	232
		HP1004-P	11.30 x 10.50	4.00	0.33 uH	→	100 uH	30.00 A → 2.50 A	235
		HP1004-L	11.30 x 10.50	4.00	1.8 uH	→	100 uH	17.00 A → 2.50 A	235
		HP1004-2	11.30 x 10.50	4.00	1.5 uH	→	10 uH	15.00 A → 6.50 A	235
CIP	Shielded SMD Power Inductor 	CIP0520 HI	5.60 x 5.20	2.00	10 uH	→		2.30 A →	237
		CIP0520 LR	5.60 x 5.20	2.00	1.0 uH	→	10 uH	7.50 A → 3.00 A	237
		CIP0530 HI	5.60 x 5.20	3.00	0.6 uH	→	2.2 uH	9.80 A → 5.50 A	237
		CIP0530 LR	5.60 x 5.20	3.00	1.5 uH	→	10 uH	8.00 A → 3.00 A	237
		CIP0630 HI	7.20 x 6.65	3.00	1.0 uH	→	10 uH	11.00 A → 3.00 A	237
		CIP0630 LR	7.20 x 6.65	3.00	0.47 uH	→	22 uH	16.50 A → 2.50 A	237
CS	Shielded SMD Power Inductor 	CS3012-S	2.90 x 2.90	1.20	1.0 uH	→	22 uH	1.50 A → 0.33 A	241
		CS3015-S	2.90 x 2.90	1.50	1.0 uH	→	47 uH	1.90 A → 0.25 A	241

INDEX SMD Inductive Component



Unit: mm

Figure	Series	Installation space	Heighe	Inductance		Rated D.C.Current		Page
Shielded SMD Power Inductor 	BF0703-L	7.60 x 7.60	3.40	0.33 uH	→ 1.0 mH	6.19 A	→ 0.26 A	243
	BF0704-L	7.60 x 7.60	4.40	10 uH	→ 1.0 mH	2.05 A	→ 0.22 A	243
	SF1258-F	12.50 x 12.50	6.00	0.47 uH	→ 1.0 mH	17.60 A	→ 0.57 A	246
	SF1278-F	12.50 x 12.50	8.00	0.47 uH	→ 1.0 mH	17.90 A	→ 0.61 A	246
Shielded SMD Power Inductor 	QS3818-L	3.80 x 3.80	1.80	1.0 uH	→ 100 uH	3.60 A	→ 0.34 A	249
	QS3828-L	3.80 x 3.80	2.80	3.3 uH	→ 100 uH	2.50 A	→ 0.48 A	253
	QS4818-L	4.80 x 4.80	1.80	1.0 uH	→ 100 uH	5.10 A	→ 0.50 A	249
	QS4828-L	4.80 x 4.80	2.80	1.2 uH	→ 560 uH	5.00 A	→ 0.30 A	253
	QS5818-L	5.80 x 5.80	1.80	1.5 uH	→ 220 uH	4.80 A	→ 0.33 A	249
	QS5828-L	5.80 x 5.80	2.80	2.6 uH	→ 680 uH	4.50 A	→ 0.31 A	256
	QS6828-L	6.80 x 6.80	2.80	2.5 uH	→ 1.0 mH	4.90 A	→ 0.30 A	256
SMD Line Filter 	SF1206-L	11.50 x 9.00	5.70	5.0 uH	→ 300 uH	2.41 A	→ 0.32 A	259
	SF1407-L	14.00 x 11.50	6.70	5.0 uH	→ 300 uH	3.30 A	→ 0.52 A	259
SMD Line Filter 	CF0904-L	9.00 x 6.00	3.60	11.0 uH	→ 4.70 mH	0.50 A	→ 0.20 A	262
SMD Line Filter 	SF0904-P	9.00 x 5.40	4.70	11 uH	→ 4.7 mH	0.50 A	→ 0.20 A	264
	SF0903-2	9.20 x 6.60	2.50	47 uH	→ 20 uH			266
	SF4532-F	4.50 x 3.20	3.00	11 uH	→ 200 uH	0.36 A	→ 0.10 A	268
	SF0502-L	5.00 x 5.00	2.50	100 Ω	→ 1.4 KΩ	6.00 A	→ 1.50 A	270
	SF0503-L	6.00 x 3.30	3.30	450 Ω	→ 1.2 KΩ	0.10 A	→ 0.10 A	272
	SF0504-L	4.80 x 5.00	4.80	190 Ω	→ 4.0 KΩ	5.00 A	→ 0.20 A	274
	SF0602-L	6.50 x 3.60	1.65	140 Ω	→ 900 Ω	4~1600MHz	→ 3~120MHz	276
	SF0905-L	9.20 x 6.00	5.00	200 Ω	→ 5.0 KΩ	20~300MHz	→ 0.3~2.0MHz	278
	SF1065-L	10.00 x 8.70	6.50	200 Ω	→ 5.0 KΩ	10~200MHz	→ 0.5~3.0MHz	280
SMD Line Filter 	SF1355-S	13.00 x 10.20	5.40	400 Ω	→ 2.2 KΩ	5~250MHz	→ 0.5~10.0MHz	282
	HDC0504 ST	1.20 x 1.00	0.90	60 Ω	→ 90 Ω	0.30 A	→ 0.28 A	284
	PWC0603 ST	1.60 x 0.85	1.10	22 Ω	→ 250 Ω	0.50 A	→ 0.40 A	286
	PWC0805 HT	2.00 x 1.20	1.00	67 Ω	→ 180 Ω	0.33 A	→ 0.25 A	286
	PWC0805 ST	2.00 x 1.20	1.20	67 Ω	→ 360 Ω	0.40 A	→ 0.28 A	286
SMD Line Filter 	PWC1206 ST	3.20 x 1.60	1.90	90 Ω	→ 2.0 KΩ	0.37 A	→ 0.20 A	286
Transponder Coil 	TP0702-S	7.70 x 2.20	2.50	2.4 mH	→ 9.0 mH			289

BF

QS

SF

PWC

TP

INDEX Through Hole Inductive Component

Unit: mm

AA

Figure

Axial Inductor



AA0307-L

0.10 uH



1.0 mH

1.40 A



60 mA

291

AA0410-L

0.10 uH



1.0 mH

1.70 A



100 mA

291

RB

Radial Inductor



RB0608-L

1.0 uH



1.0 mH

1.03 A



0.10 A

296

RB0812-L

47 uH



47 mH

0.45 A



16 mA

296

RB1010-L

100 uH



100 mH

0.90 A



20 mA

300

RB0712-L

10 uH



560 uH

1.10 A



0.15 A

296

RB0912-L

1.5 uH



1.0 mH

5.40 A



0.20 A

302

RB0914-L

3.3 uH



1.0 mH

3.60 A



0.30 A

304

RB1314-L

3.3 uH



15 mH

5.60 A



82 mA

306

RC1008-L

10 uH



1.0 mH

4.50 A



0.46 A

308

RC1010-L

10 uH



1.0 mH

4.80 A

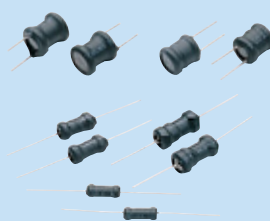


0.60 A

308

PA

Power Inductor



PA0618-L

10 uH



1.0 mH

2.00 A



0.20 A

311

PA1020-L

10 uH



1.0 mH

3.50 A



0.40 A

311

PA1226-L

10 uH



1.0 mH

5.00 A



0.60 A

311

PV1620-L

10 uH



1.0 mH

5.00 A



0.70 A

313

PV1823-L

10 uH



1.0 mH

8.00 A



1.00 A

313

TR

Filter Coil



TR0806-L

10 uH



1.00 A

315

TR1307-L

25 uH



2.00 A

315

TR1711-L

26 uH



72 uH

2.00 A



2.00 A

315

TR1714-L

45 uH



125 uH

2.00 A



2.00 A

315

TR2313-L

40 uH



110 uH

3.00 A



3.00 A

315

TR2616-L

35 uH



100 uH

5.00 A



5.00 A

315

TR3217-L

45 uH



140 uH

5.00 A



5.00 A

315

TB0703-L

10 uH



60 uH

0.70 A

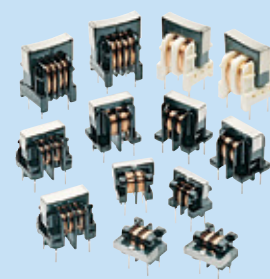


0.50 A

318

UF

Line Filter



UF09H2-L

0.50 mH



10 mH

1.40 A



0.30 A

320

UF09V2-L

0.50 mH



10 mH

1.40 A



0.30 A

320

UF10V2-L

1.00 mH



10 mH

1.60 A



0.40 A

322

UF10V4-L

0.80 mH



8.0 mH

1.60 A



0.40 A

322

UF15V2-L

1.50 mH



20 mH

1.80 A



0.50 A

324

UF15V4-L

1.50 mH



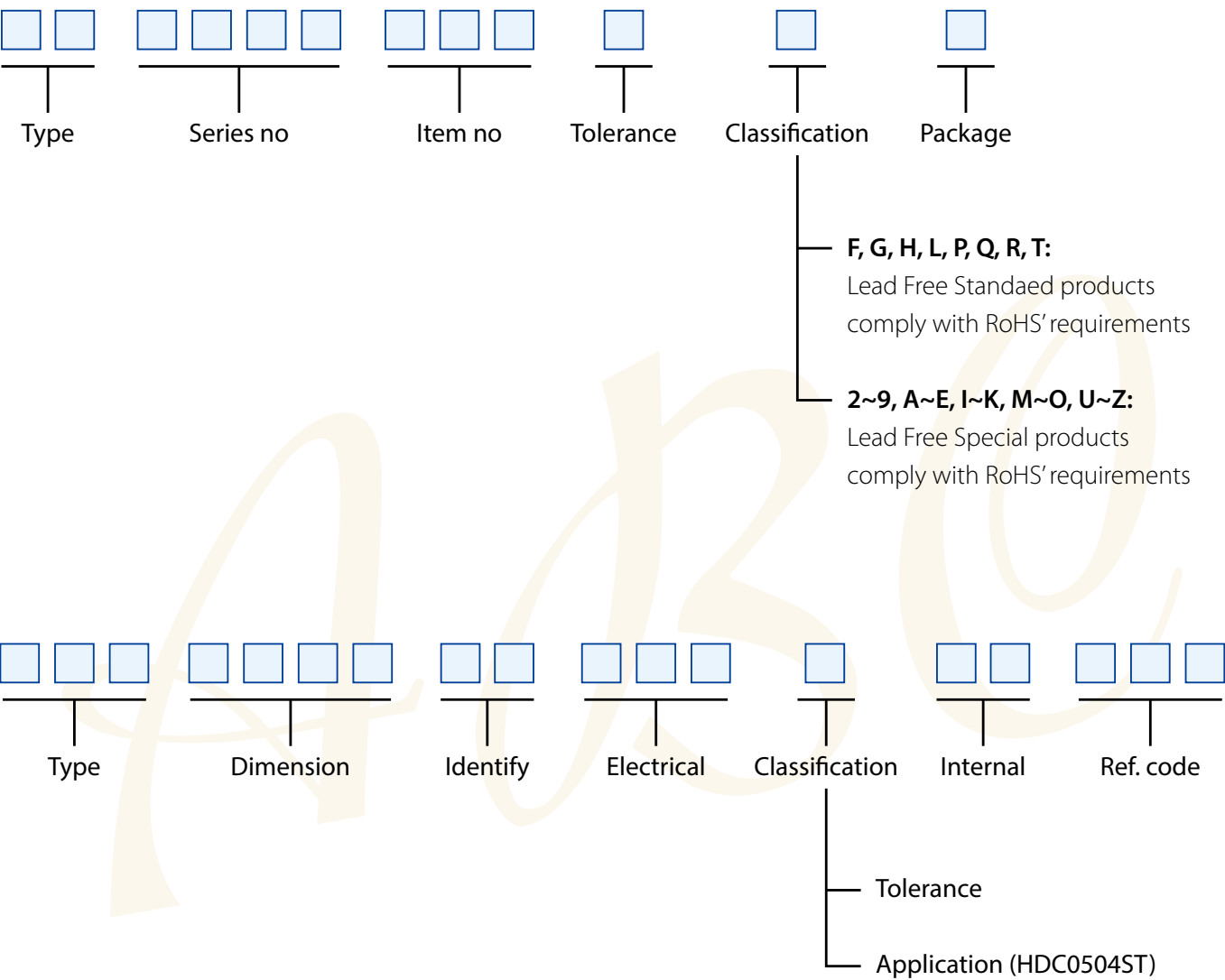
20 mH

1.80 A



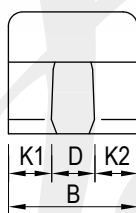
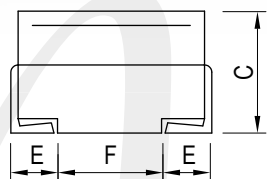
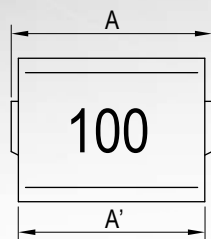
0.50 A

324



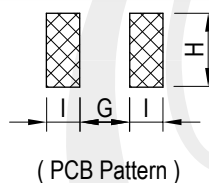
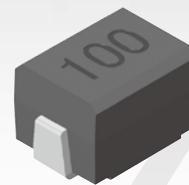
CM3225/4532-L, CC3225/4532-L Series

CONFIGURATION & DIMENSIONS



$$\ast \Delta K = |K1 - K2| = 0.25^{+0} \text{ mm}$$

Patent: Taiwan patent: #66599, Germany patent: #G9108527.6, China patent: #91216041.1



(PCB Pattern)

Unit: mm

Series	A	A'	B	C	D	E	F	G	H	I
CM3225-L	3.20±0.40	2.90±0.20	2.50±0.20	2.20±0.20	1.00	0.60	2.00	1.80	1.40	1.00
CM4532-L	4.50±0.30	4.20±0.20	3.20±0.20	3.20±0.20	1.20	1.00	2.50	2.20	1.60	1.50
CC3225-L	3.20±0.40	2.90±0.20	2.50±0.20	2.20±0.20	1.00	0.60	2.00	1.80	1.40	1.00
CC4532-L	4.50±0.30	4.20±0.20	3.20±0.20	3.20±0.20	1.20	1.00	2.50	2.20	1.60	1.50

DESCRIPTION

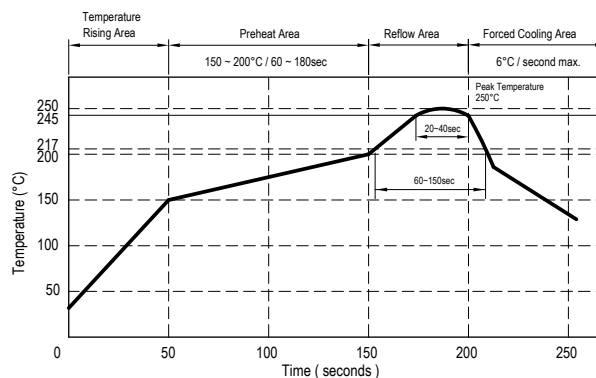
- Ferrite drum core construction
- Enamelled copper wire: H class
- Product weight: 0.05 (CM3225) / 0.11 (CM4532) / 0.045 (CC3225) / 0.110 (CC4532)g (ref.)
- Moisture sensitivity Level 3
- Products comply with RoHS' requirements

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +125°C (Temp. rise included)
- Temp. rise: 20°C max.
- Ambient temp. 100°C max.
- Terminal pull strength: 1.5 kg min.
- Resistance to solvent: Per MIL-STD-202F
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max time above 245°C: 20~40sec max.
 - Max time above 217°C: 60~150sec max.
 - 200°C~250°C Average Ramp-up Rate: 3°C/second max.

FEATURES & APPLICATION

- Wire wound on drum ferrite with resin molding package offer excellent reliability.
- Recommended for reflow soldering PCB assembly.
- High Q & excellent inductance vs temperature characteristics available for RF filter & amplifier circuit.



CM3225/4532-L, CC3225/4532-L Series

ELECTRICAL CHARACTERISTICS

■ CM3225-L Series

DWG. No.	Inductance (μ H)	Q min.	Test Freq. (MHz)	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
CM3225R12ML□-□□□	0.120 $\pm$ 20%	30	25.2	500	0.22	450
CM3225R15ML□-□□□	0.150 $\pm$ 20%	30	25.2	450	0.25	450
CM3225R18ML□-□□□	0.180 $\pm$ 20%	30	25.2	400	0.28	450
CM3225R22ML□-□□□	0.220 $\pm$ 20%	30	25.2	350	0.32	450
CM3225R27ML□-□□□	0.270 $\pm$ 20%	30	25.2	320	0.36	450
CM3225R33ML□-□□□	0.330 $\pm$ 20%	30	25.2	300	0.40	450
CM3225R39ML□-□□□	0.390 $\pm$ 20%	30	25.2	250	0.45	450
CM3225R47ML□-□□□	0.470 $\pm$ 20%	30	25.2	220	0.50	450
CM3225R56ML□-□□□	0.560 $\pm$ 20%	30	25.2	180	0.55	450
CM3225R68ML□-□□□	0.680 $\pm$ 20%	30	25.2	160	0.60	450
CM3225R82ML□-□□□	0.820 $\pm$ 20%	30	25.2	140	0.65	450
CM32251R0KL□-□□□	1.000 $\pm$ 10%	30	7.96	120	0.70	400
CM32251R2KL□-□□□	1.200 $\pm$ 10%	30	7.96	100	0.75	390
CM32251R5KL□-□□□	1.500 $\pm$ 10%	30	7.96	85	0.85	370
CM32251R8KL□-□□□	1.800 $\pm$ 10%	30	7.96	80	0.90	350
CM32252R2KL□-□□□	2.200 $\pm$ 10%	30	7.96	75	1.00	320
CM32252R7KL□-□□□	2.700 $\pm$ 10%	30	7.96	70	1.10	290
CM32253R3KL□-□□□	3.300 $\pm$ 10%	30	7.96	60	1.20	260
CM32253R9KL□-□□□	3.900 $\pm$ 10%	30	7.96	55	1.30	250
CM32254R7KL□-□□□	4.700 $\pm$ 10%	30	7.96	50	1.50	220
CM32255R6KL□-□□□	5.600 $\pm$ 10%	30	7.96	45	1.60	200
CM32256R8KL□-□□□	6.800 $\pm$ 10%	30	7.96	40	1.80	180
CM32258R2KL□-□□□	8.200 $\pm$ 10%	30	7.96	35	2.00	170
CM3225100KL□-□□□	10.000 $\pm$ 10%	30	2.52	30	2.10	150
CM3225120KL□-□□□	12.000 $\pm$ 10%	30	2.52	20	2.50	140
CM3225150KL□-□□□	15.000 $\pm$ 10%	30	2.52	20	2.80	130
CM3225180KL□-□□□	18.000 $\pm$ 10%	30	2.52	20	3.30	120
CM3225220KL□-□□□	22.000 $\pm$ 10%	30	2.52	20	3.70	110
CM3225270KL□-□□□	27.000 $\pm$ 10%	30	2.52	20	5.00	80
CM3225330KL□-□□□	33.000 $\pm$ 10%	30	2.52	17	5.60	70
CM3225390KL□-□□□	39.000 $\pm$ 10%	30	2.52	16	6.40	65
CM3225470KL□-□□□	47.000 $\pm$ 10%	30	2.52	15	7.00	60
CM3225560KL□-□□□	56.000 $\pm$ 10%	30	2.52	13	8.00	55
CM3225680KL□-□□□	68.000 $\pm$ 10%	30	2.52	12	9.00	50
CM3225820KL□-□□□	82.000 $\pm$ 10%	30	2.52	11	10.00	45
CM3225101KL□-□□□	100.000 $\pm$ 10%	20	0.796	10	11.00	40
CM3225121KL□-□□□	120.000 $\pm$ 10%	20	0.796	10	11.00	70
CM3225151KL□-□□□	150.000 $\pm$ 10%	20	0.796	8	15.00	65

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

CM3225/4532-L, CC3225/4532-L Series

CM

■ CM4532-L Series

DWG. No.	Inductance (μ H)	Q min.	Test Freq. (MHz)	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
CM4532R10ML□-□□□	0.10 $\pm$ 20%	35	25.2	300.0	0.18	800
CM4532R12ML□-□□□	0.12 $\pm$ 20%	35	25.2	280.0	0.20	770
CM4532R15ML□-□□□	0.15 $\pm$ 20%	35	25.2	250.0	0.22	730
CM4532R18ML□-□□□	0.18 $\pm$ 20%	35	25.2	220.0	0.24	700
CM4532R22ML□-□□□	0.22 $\pm$ 20%	40	25.2	200.0	0.25	665
CM4532R27ML□-□□□	0.27 $\pm$ 20%	40	25.2	180.0	0.26	635
CM4532R33ML□-□□□	0.33 $\pm$ 20%	40	25.2	165.0	0.28	605
CM4532R39ML□-□□□	0.39 $\pm$ 20%	40	25.2	150.0	0.30	575
CM4532R47ML□-□□□	0.47 $\pm$ 20%	40	25.2	145.0	0.32	545
CM4532R56ML□-□□□	0.56 $\pm$ 20%	40	25.2	140.0	0.36	520
CM4532R68ML□-□□□	0.68 $\pm$ 20%	40	25.2	135.0	0.40	500
CM4532R82ML□-□□□	0.82 $\pm$ 20%	40	25.2	130.0	0.45	475
CM45321R0KL□-□□□	1.00 $\pm$ 10%	50	7.96	100.0	0.50	450
CM45321R2KL□-□□□	1.20 $\pm$ 10%	50	7.96	80.0	0.55	430
CM45321R5KL□-□□□	1.50 $\pm$ 10%	50	7.96	70.0	0.60	410
CM45321R8KL□-□□□	1.80 $\pm$ 10%	50	7.96	60.0	0.65	390
CM45322R2KL□-□□□	2.20 $\pm$ 10%	50	7.96	55.0	0.70	380
CM45322R7KL□-□□□	2.70 $\pm$ 10%	50	7.96	50.0	0.75	370
CM45323R3KL□-□□□	3.30 $\pm$ 10%	50	7.96	45.0	0.80	355
CM45323R9KL□-□□□	3.90 $\pm$ 10%	50	7.96	40.0	0.90	330
CM45324R7KL□-□□□	4.70 $\pm$ 10%	50	7.96	35.0	1.00	315
CM45325R6KL□-□□□	5.60 $\pm$ 10%	50	7.96	33.0	1.10	300
CM45326R8KL□-□□□	6.80 $\pm$ 10%	50	7.96	27.0	1.20	285
CM45328R2KL□-□□□	8.20 $\pm$ 10%	50	7.96	25.0	1.40	270
CM4532100KL□-□□□	10.00 $\pm$ 10%	50	2.52	20.0	1.60	250
CM4532120KL□-□□□	12.00 $\pm$ 10%	50	2.52	18.0	2.00	225
CM4532150KL□-□□□	15.00 $\pm$ 10%	50	2.52	17.0	2.50	200
CM4532180KL□-□□□	18.00 $\pm$ 10%	50	2.52	15.0	2.80	190
CM4532220KL□-□□□	22.00 $\pm$ 10%	50	2.52	13.0	3.20	180
CM4532270KL□-□□□	27.00 $\pm$ 10%	50	2.52	12.0	3.60	170
CM4532330KL□-□□□	33.00 $\pm$ 10%	50	2.52	11.0	4.00	160
CM4532390KL□-□□□	39.00 $\pm$ 10%	50	2.52	10.0	4.50	150
CM4532470KL□-□□□	47.00 $\pm$ 10%	50	2.52	10.0	5.00	140
CM4532560KL□-□□□	56.00 $\pm$ 10%	50	2.52	9.0	5.50	135
CM4532680KL□-□□□	68.00 $\pm$ 10%	50	2.52	9.0	6.00	130
CM4532820KL□-□□□	82.00 $\pm$ 10%	50	2.52	8.0	7.00	120
CM4532101KL□-□□□	100.00 $\pm$ 10%	40	0.796	8.0	8.00	110
CM4532121KL□-□□□	120.00 $\pm$ 10%	40	0.796	6.0	8.00	110
CM4532151KL□-□□□	150.00 $\pm$ 10%	40	0.796	5.0	9.00	105
CM4532181KL□-□□□	180.00 $\pm$ 10%	40	0.796	5.0	9.50	102
CM4532221KL□-□□□	220.00 $\pm$ 10%	40	0.796	4.0	10.00	100
CM4532271KL□-□□□	270.00 $\pm$ 10%	40	0.796	4.0	12.00	92
CM4532331KL□-□□□	330.00 $\pm$ 10%	40	0.796	3.5	14.00	85
CM4532391KL□-□□□	390.00 $\pm$ 10%	40	0.796	3.0	18.00	80
CM4532471KL□-□□□	470.00 $\pm$ 10%	40	0.796	3.0	26.00	62
CM4532561KL□-□□□	560.00 $\pm$ 10%	30	0.796	3.0	30.00	50
CM4532681KL□-□□□	680.00 $\pm$ 10%	30	0.796	3.0	30.00	50
CM4532821KL□-□□□	820.00 $\pm$ 10%	30	0.796	2.5	35.00	30
CM4532102KL□-□□□	1000.00 $\pm$ 10%	20	0.252	2.5	40.00	30

1. □ : Packaging information: □ Code

2. "-□□□": Reference code

3. Electrical specifications at 25°C

CM3225/4532-L, CC3225/4532-L Series

■ CC3225-L Series

DWG. No.	Inductance (μH)	Q min.	Test Freq. (MHz)	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
CC32251R0ML□-□□□	1.00±20%	10	7.96	100.0	0.156	770
CC32251R5ML□-□□□	1.50±20%	10	7.96	80.0	0.195	580
CC32252R2ML□-□□□	2.20±20%	10	7.96	65.0	0.260	480
CC32253R3ML□-□□□	3.30±20%	10	7.96	55.0	0.325	400
CC32254R7ML□-□□□	4.70±20%	10	7.96	45.0	0.520	320
CC32256R8ML□-□□□	6.80±20%	10	7.96	35.0	0.650	280
CC3225100KL□-□□□	10.00±10%	15	2.52	28.0	1.105	220
CC3225150KL□-□□□	15.00±10%	15	2.52	25.0	1.690	180
CC322520KL□-□□□	22.00±10%	15	2.52	20.0	2.600	145
CC3225270KL□-□□□	27.00±10%	15	2.52	17.0	3.000	125
CC3225330KL□-□□□	33.00±10%	15	2.52	15.0	3.640	115
CC3225470KL□-□□□	47.00±10%	20	2.52	13.0	5.460	105
CC3225680KL□-□□□	68.00±10%	20	2.52	10.0	8.450	85
CC3225820KL□-□□□	82.00±10%	20	2.52	9.0	8.710	80
CC3225101KL□-□□□	100.00±10%	20	0.796	8.0	10.140	75

■ CC4532-L Series

DWG. No.	Inductance (μH)	Q min.	Test Freq. (MHz)	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
CC45321R0KL□-□□□	1.00±10%	10	7.96	180.0	0.11	1050
CC45321R2KL□-□□□	1.20±10%	10	7.96	160.0	0.12	1000
CC45321R5KL□-□□□	1.50±10%	10	7.96	130.0	0.15	950
CC45321R8KL□-□□□	1.80±10%	10	7.96	100.0	0.16	900
CC45322R2KL□-□□□	2.20±10%	10	7.96	80.0	0.18	850
CC45322R7KL□-□□□	2.70±10%	10	7.96	60.0	0.20	800
CC45323R3KL□-□□□	3.30±10%	10	7.96	45.0	0.22	750
CC45323R9KL□-□□□	3.90±10%	10	7.96	40.0	0.24	700
CC45324R7KL□-□□□	4.70±10%	10	7.96	35.0	0.27	650
CC45325R6KL□-□□□	5.60±10%	10	7.96	30.0	0.30	650
CC45326R8KL□-□□□	6.80±10%	10	7.96	28.0	0.35	600
CC45328R2KL□-□□□	8.20±10%	10	7.96	25.0	0.40	600
CC4532100KL□-□□□	10.00±10%	10	2.52	22.0	0.50	550
CC4532120KL□-□□□	12.00±10%	10	2.52	21.0	0.60	500
CC4532150KL□-□□□	15.00±10%	10	2.52	20.0	0.70	450
CC4532180KL□-□□□	18.00±10%	10	2.52	19.0	0.80	400
CC4532220KL□-□□□	22.00±10%	10	2.52	18.0	0.90	370
CC4532270KL□-□□□	27.00±10%	10	2.52	16.0	1.20	330
CC4532330KL□-□□□	33.00±10%	10	2.52	14.0	1.40	300
CC4532390KL□-□□□	39.00±10%	10	2.52	12.0	1.60	280
CC4532470KL□-□□□	47.00±10%	10	2.52	11.5	1.90	260
CC4532560KL□-□□□	56.00±10%	10	2.52	11.0	2.20	240
CC4532680KL□-□□□	68.00±10%	10	2.52	10.0	2.60	220
CC4532820KL□-□□□	82.00±10%	10	2.52	9.0	3.50	200
CC4532101KL□-□□□	100.00±10%	20	0.796	8.0	4.00	180
CC4532121KL□-□□□	120.00±10%	20	0.796	7.5	4.50	160
CC4532151KL□-□□□	150.00±10%	20	0.796	7.0	6.50	140
CC4532181KL□-□□□	180.00±10%	20	0.796	6.5	7.50	120
CC4532221KL□-□□□	220.00±10%	20	0.796	5.5	9.00	120
CC4532271KL□-□□□	270.00±10%	20	0.796	5.0	11.00	100
CC4532331KL□-□□□	330.00±10%	20	0.796	4.0	13.00	90
CC4532391KL□-□□□	390.00±10%	20	0.796	3.0	14.00	85
CC4532471KL□-□□□	470.00±10%	20	0.796	3.0	16.00	75
CC4532561KL□-□□□	560.00±10%	20	0.796	3.0	21.00	70
CC4532681KL□-□□□	680.00±10%	20	0.796	2.5	24.20	65

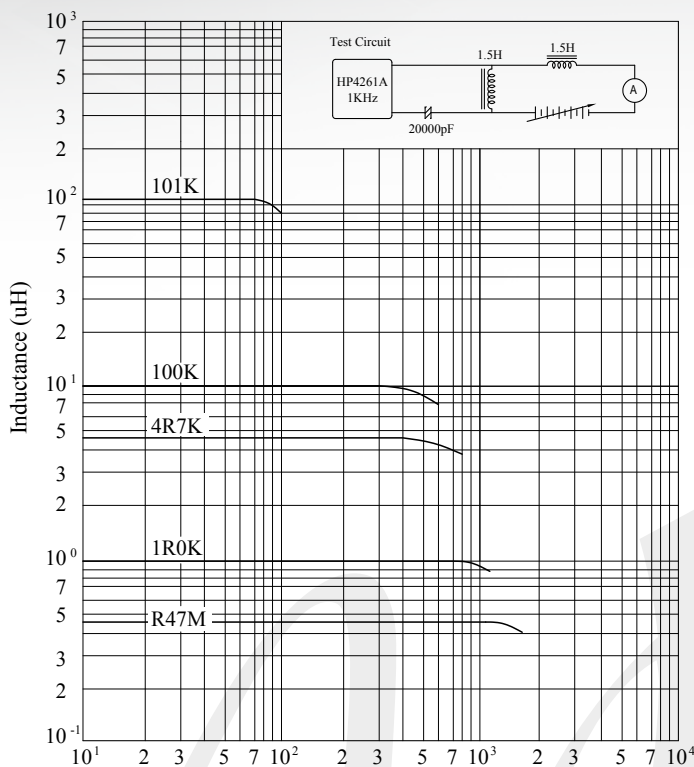
1. □ : Packaging information: □ Code
2. "- □□□": Reference code
3. Electrical specifications at 25°C

CM3225/4532-L, CC3225/4532-L Series

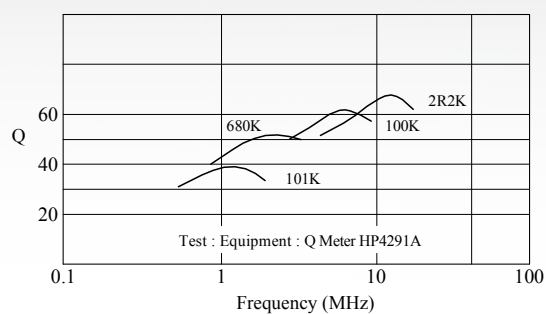
CURVE

■ CM3225-L Series

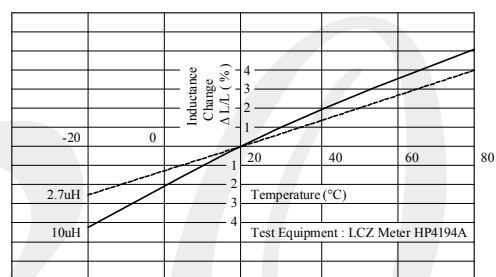
@ Inductance VS. DC Current Curve



@ Q VS. Frequency Response

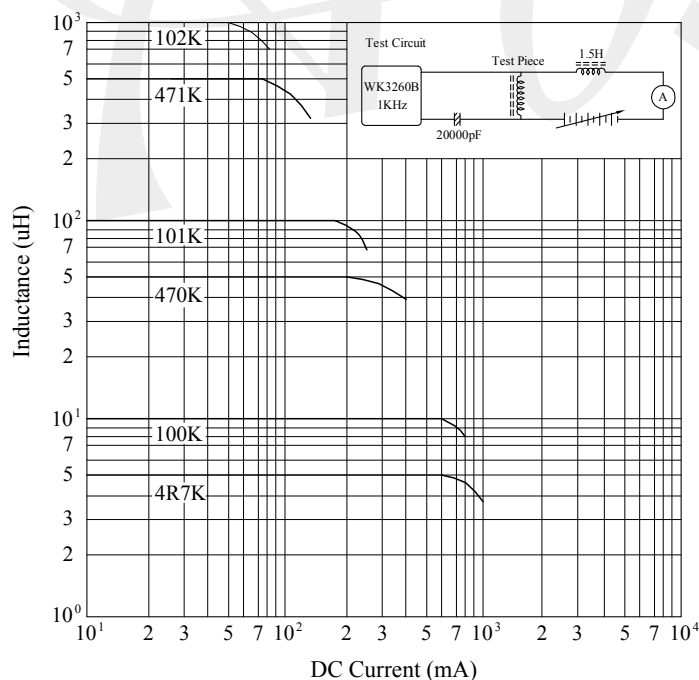


@ Inductance Change VS. Temperature Response

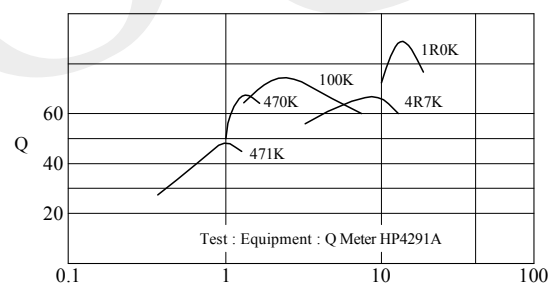


■ CM4532-L Series

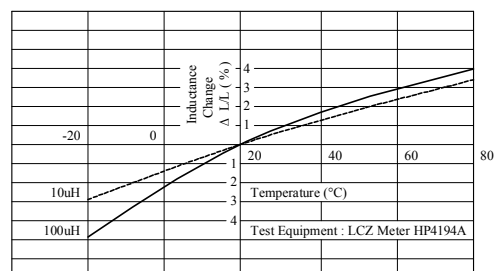
@ Inductance VS. DC Current Curve



@ Q VS. Frequency Response



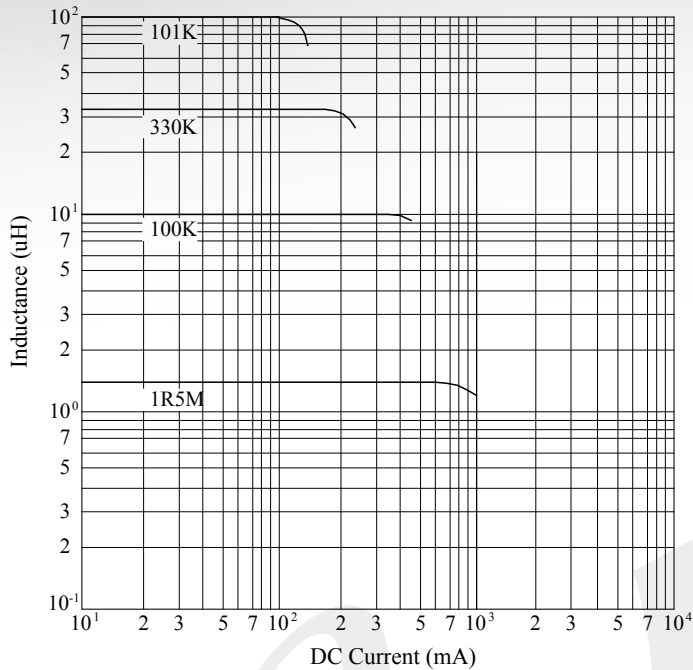
@ Inductance Change VS. Temperature Response



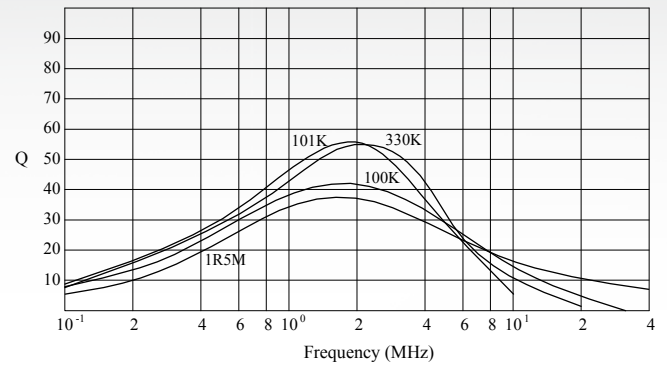
CM3225/4532-L, CC3225/4532-L Series

■ CC3225-L Series

@ Inductance VS. DC Current Curve

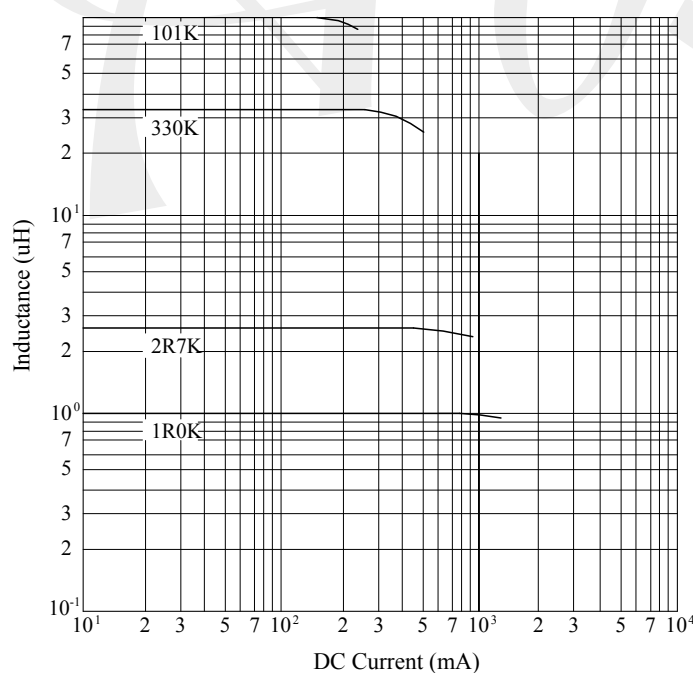


@ Q VS. Frequency Response

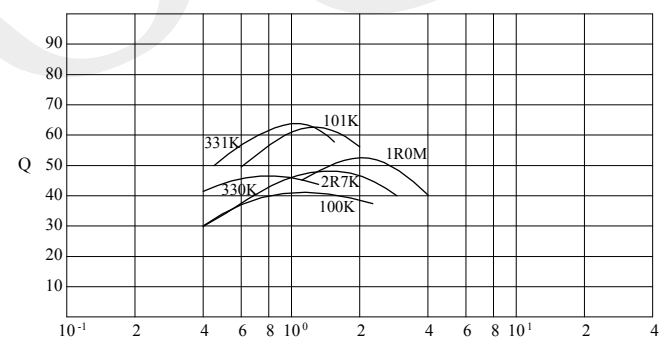


■ CC4532-L Series

@ Inductance VS. DC Current Curve

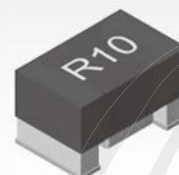
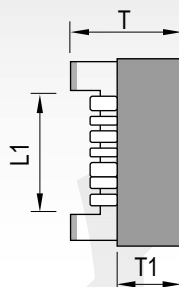
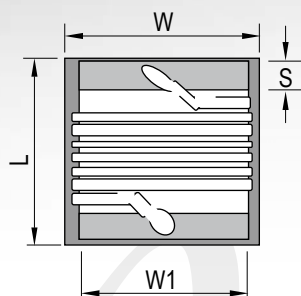


@ Q VS. Frequency Response



SWI0402/0603/0805/1008/1210-CT Series

CONFIGURATION & DIMENSIONS



No Marking:
SWI0402-CT, SWI0603-CT, SWI0805-CT5N1

Unit: mm

Series	L	W	T	S	L1	W1	T1
SWI0402-CT	1.00±0.10	0.55±0.10	0.50±0.10	0.20±0.10	0.60 ref.	0.48 ref.	0.20 ref.
SWI0603-CT	1.60±0.20	1.05±0.20	1.05±0.20	0.35±0.10	0.80 ref.	0.95 ref.	0.50 ref.
SWI0805-CT	2.00±0.20	1.25±0.20	1.20±0.20	0.40±0.10	1.10 ref.	1.15 ref.	0.60 ref.
SWI1008-CT	2.60±0.20	2.10±0.20	1.70±0.20	0.50±0.10	1.40 ref.	1.90 ref.	0.70 ref.
SWI1210-CT	3.20±0.20	2.60±0.20	2.10±0.20	0.50±0.10	2.05 ref.	2.10 ref.	1.10 ref.

DESCRIPTION

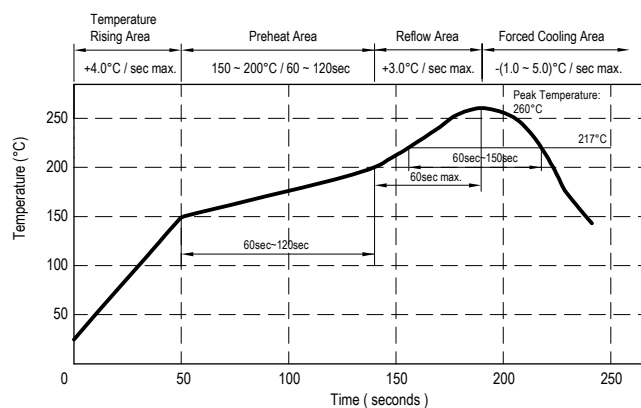
- Wire wound type inductor
- Ceramic core with gold plating terminals
- Comply with RoHS' requirement
- Product weight: 0.0008 (0402) / 0.0049 (0603) / 0.0084 (0805) / 0.025 (1008) / 0.045 (1210)g (ref.)

FEATURES & APPLICATION

- Wire wound on ceramic body with Au terminal & resin potting package.
- Recommended for reflow soldering PCB assembly.
- Excellent inductance vs temperature coefficient & High self resonant frequency up to GHz, especially for high frequency application such as RF transceiver & wireless communication.

GENERAL SPECIFICATION

- Storage condition:
Temp.: -10 ~ +40°C
Humidity: 30% to 70% relative humidity
- Operating temp.: -40°C to +125°C
- Recommended IR reflow:
Peak Temp.: 260°C max.
Max. Peak Temp. -5°C: 30sec max.
Max time above 217°C: 60 ~ 150sec max.



SWI0402/0603/0805/1008/1210-CT Series

ELECTRICAL CHARACTERISTICS

■ SWI0402-CT Series

DWG. No.	Inductance ¹ (nH)	Tolerance	Q ²		SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	IDC ⁵ (mA) max.
			min.	Typical @900MHz			
SWI0402CT1N0□-□□	1.0 @ 250MHz	B, S	13	26	6000	0.045	1360
SWI0402CT1N9□-□□	1.9 @ 250MHz	B, S	16	29	6000	0.070	1040
SWI0402CT2N0□-□□	2.0 @ 250MHz	B, S	16	30	6000	0.070	1040
SWI0402CT2N2□-□□	2.2 @ 250MHz	B, S	18	32	6000	0.070	960
SWI0402CT2N4□-□□	2.4 @ 250MHz	B, S	16	35	6000	0.068	790
SWI0402CT2N7□-□□	2.7 @ 250MHz	B, S	16	31	6000	0.120	860
SWI0402CT3N3□-□□	3.3 @ 250MHz	B, J, K	20	41	6000	0.066	840
SWI0402CT3N6□-□□	3.6 @ 250MHz	B, J, K	20	43	6000	0.066	840
SWI0402CT3N9□-□□	3.9 @ 250MHz	B, J, K	20	41	5800	0.066	840
SWI0402CT4N3□-□□	4.3 @ 250MHz	B, J, K	18	45	6000	0.091	700
SWI0402CT4N7□-□□	4.7 @ 250MHz	B, J, K	15	45	4775	0.130	640
SWI0402CT5N1□-□□	5.1 @ 250MHz	B, J, K	23	49	5800	0.083	800
SWI0402CT5N6□-□□	5.6 @ 250MHz	B, J, K	23	46	5800	0.083	760
SWI0402CT6N2□-□□	6.2 @ 250MHz	B, J, K	23	49	5800	0.083	760
SWI0402CT6N8□-□□	6.8 @ 250MHz	B, J, K	20	50	4800	0.083	680
SWI0402CT7N5□-□□	7.5 @ 250MHz	B, J, K	25	50	5800	0.104	680
SWI0402CT8N2□-□□	8.2 @ 250MHz	B, J, K	25	49	4400	0.104	680
SWI0402CT8N7□-□□	8.7 @ 250MHz	B, J, K	18	50	4100	0.200	480
SWI0402CT9N0□-□□	9.0 @ 250MHz	B, J, K	25	49	4160	0.104	680
SWI0402CT9N5□-□□	9.5 @ 250MHz	B, J, K	18	45	4000	0.200	680
SWI0402CT10N□-□□	10.0 @ 250MHz	G, J, K	23	47	3900	0.195	480
SWI0402CT11N□-□□	11.0 @ 250MHz	G, J, K	26	56	3680	0.120	640
SWI0402CT12N□-□□	12.0 @ 250MHz	G, J, K	26	51	3600	0.120	640
SWI0402CT13N□-□□	13.0 @ 250MHz	G, J, K	24	54	3450	0.210	560
SWI0402CT15N□-□□	15.0 @ 250MHz	G, J, K	26	54	3280	0.172	560
SWI0402CT16N□-□□	16.0 @ 250MHz	G, J, K	24	54	3100	0.220	560
SWI0402CT18N□-□□	18.0 @ 250MHz	G, J, K	25	52	3100	0.230	520
SWI0402CT19N□-□□	19.0 @ 250MHz	G, J, K	26	50	3040	0.202	480
SWI0402CT20N□-□□	20.0 @ 250MHz	G, J, K	25	51	3000	0.250	420
SWI0402CT22N□-□□	22.0 @ 250MHz	G, J, K	25	52	2800	0.300	400
SWI0402CT23N□-□□	23.0 @ 250MHz	G, J, K	26	53	2720	0.214	400
SWI0402CT24N□-□□	24.0 @ 250MHz	G, J, K	25	51	2700	0.300	400
SWI0402CT27N□-□□	27.0 @ 250MHz	G, J, K	26	48	2480	0.298	400
SWI0402CT30N□-□□	30.0 @ 250MHz	G, J, K	25	46	2350	0.300	400
SWI0402CT33N□-□□	33.0 @ 250MHz	G, J, K	24	48	2350	0.350	400
SWI0402CT36N□-□□	36.0 @ 250MHz	G, J, K	26	48	2320	0.403	320
SWI0402CT39N□-□□	39.0 @ 250MHz	G, J, K	25	45	2100	0.550	320
SWI0402CT40N□-□□	40.0 @ 250MHz	G, J, K	26	48	2240	0.438	320
SWI0402CT43N□-□□	43.0 @ 250MHz	G, J, K	25	46	2030	0.810	240
SWI0402CT47N□-□□	47.0 @ 200MHz	G, J, K	26	46	2100	0.830	210
SWI0402CT51N□-□□	51.0 @ 200MHz	J, K	25	40	1750	0.820	210
SWI0402CT56N□-□□	56.0 @ 200MHz	J, K	22	42	1760	0.970	200
SWI0402CT68N□-□□	68.0 @ 200MHz	J, K	22	36	1620	1.120	180
SWI0402CT75N□-□□	75.0 @ 100MHz	J, K	20	34	1550	1.200	160
SWI0402CT82N□-□□	82.0 @ 100MHz	J, K	20	33	1500	1.250	150
SWI0402CT91N□-□□	91.0 @ 100MHz	J, K	20	30	1350	2.300	120
SWI0402CTR10□-□□	100.0 @ 100MHz	J, K	20	30	1300	2.520	120
SWI0402CTR12□-□□	120.0 @ 100MHz	J, K	20	29	1100	2.660	110

Tolerance: B=±0.2nH S=±0.3nH G=±2% J=±5% K=±10%

1. Inductance is measured in HP-4287A RF LCR meter with HP-16193 fixture.
2. Q is measured in HP-4287A RF LCR meter with HP-16193 fixture.
3. SRF is measured in ENA E5071B network analyzer or equivalent.

4. RDC is measured in HP-4338B milliohm meter or equivalent.
5. For 15°C Rise.
Unit weight = 0.0008g (for ref.)

SWI0402/0603/0805/1008/1210-CT Series

■ SWI0603-CT Series

DWG. No.	Inductance ¹ (nH)	Tolerance	Q ²		SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	IDC ⁵ (mA) max.
			min.	Typical @900MHz			
SWI0603CT1N6□-□□	1.6 @ 250MHz	B, S	24	40	12500	0.030	700
SWI0603CT1N8□-□□	1.8 @ 250MHz	B, S	16	35	12500	0.045	700
SWI0603CT2N0□-□□	2.0 @ 250MHz	B, S	16	31	6900	0.080	700
SWI0603CT3N9□-□□	3.9 @ 250MHz	B, S	22	51	6900	0.080	700
SWI0603CT4N3□-□□	4.3 @ 250MHz	B, S	22	45	5900	0.080	700
SWI0603CT4N7□-□□	4.7 @ 250MHz	B, S	20	47	5800	0.130	700
SWI0603CT5N1□-□□	5.1 @ 250MHz	J, K	20	47	5700	0.140	700
SWI0603CT5N6□-□□	5.6 @ 250MHz	J, K	16	40	5500	0.150	700
SWI0603CT6N8□-□□	6.8 @ 250MHz	B, J, K	30	63	5800	0.110	700
SWI0603CT7N5□-□□	7.5 @ 250MHz	B, J, K	28	64	4800	0.106	700
SWI0603CT8N2□-□□	8.2 @ 250MHz	B, J, K	30	72	4600	0.100	700
SWI0603CT8N7□-□□	8.7 @ 250MHz	J, K	28	66	4600	0.109	700
SWI0603CT9N1□-□□	9.1 @ 250MHz	J, K	28	60	4000	0.135	700
SWI0603CT9N5□-□□	9.5 @ 250MHz	J, K	28	62	4500	0.135	700
SWI0603CT10N□-□□	10.0 @ 250MHz	G, J, K	30	66	3800	0.130	700
SWI0603CT11N□-□□	11.0 @ 250MHz	J, K	33	68	4000	0.090	700
SWI0603CT12N□-□□	12.0 @ 250MHz	G, J, K	35	72	4000	0.130	700
SWI0603CT13N□-□□	13.0 @ 250MHz	J, K	38	75	4000	0.106	700
SWI0603CT15N□-□□	15.0 @ 250MHz	G, J, K	35	68	4000	0.170	700
SWI0603CT16N□-□□	16.0 @ 250MHz	J, K	34	66	3300	0.170	700
SWI0603CT18N□-□□	18.0 @ 250MHz	G, J, K	38	77	3100	0.170	700
SWI0603CT20N□-□□	20.0 @ 250MHz	J, K	38	72	3000	0.220	700
SWI0603CT22N□-□□	22.0 @ 250MHz	G, J, K	38	70	3000	0.220	700
SWI0603CT24N□-□□	24.0 @ 250MHz	J, K	37	75	2650	0.135	700
SWI0603CT27N□-□□	27.0 @ 250MHz	G, J, K	40	75	2800	0.220	600
SWI0603CT30N□-□□	30.0 @ 250MHz	J, K	45	57	2300	0.220	600
SWI0603CT33N□-□□	33.0 @ 250MHz	G, J, K	43	78	2300	0.220	600
SWI0603CT36N□-□□	36.0 @ 250MHz	J, K	43	70	2200	0.250	600
SWI0603CT39N□-□□	39.0 @ 250MHz	G, J, K	43	66	2200	0.250	600
SWI0603CT43N□-□□	43.0 @ 250MHz	J, K	38	62	2000	0.280	600
SWI0603CT47N□-□□	47.0 @ 200MHz	G, J, K	40	65	2000	0.280	600
SWI0603CT51N□-□□	51.0 @ 200MHz	J, K	40	66	1900	0.310	600
SWI0603CT56N□-□□	56.0 @ 200MHz	G, J, K	40	66	1900	0.310	600
SWI0603CT62N□-□□	62.0 @ 200MHz	J, K	40	60	1700	0.340	600
SWI0603CT68N□-□□	68.0 @ 200MHz	G, J, K	40	57	1700	0.340	600
SWI0603CT72N□-□□	72.0 @ 150MHz	G, J, K	35	60	1700	0.490	400
SWI0603CT82N□-□□	82.0 @ 150MHz	G, J, K	35	58	1700	0.540	400
SWI0603CT90N□-□□	90.0 @ 150MHz	J, K	35	52	1700	0.540	400
SWI0603CTR10□-□□	100.0 @ 150MHz	G, J, K	35	51	1400	0.630	400
SWI0603CTR11□-□□	110.0 @ 150MHz	G, J, K	35	22	1400	0.630	400
SWI0603CTR12□-□□	120.0 @ 150MHz	G, J, K	35	45	1300	0.650	300
SWI0603CTR13□-□□	130.0 @ 150MHz	J, K	35	40	1000	0.920	280
SWI0603CTR15□-□□	150.0 @ 150MHz	G, J, K	35	33	1000	0.920	280
SWI0603CTR16□-□□	160.0 @ 100MHz	G, J, K	30	27	1000	1.000	250
SWI0603CTR18□-□□	180.0 @ 100MHz	G, J, K	30	26	1000	1.250	240
SWI0603CTR20□-□□	200.0 @ 100MHz	J, K	30	23	1000	1.250	240
SWI0603CTR21□-□□	210.0 @ 100MHz	J, K	27	23	1000	1.700	200
SWI0603CTR22□-□□	220.0 @ 100MHz	G, J, K	30	23	1000	1.700	200
SWI0603CTR24□-□□	240.0 @ 100MHz	J, K	30	15	1000	1.700	200
SWI0603CTR27□-□□	270.0 @ 100MHz	G, J, K	30	10	1000	1.800	170
SWI0603CTR33□-□□	330.0 @ 100MHz	J, K	25	-	450	2.000	150
SWI0603CTR39□-□□	390.0 @ 100MHz	J, K	20	-	350	2.000	170

Tolerance: B=±0.2nH S=±0.3nH G=±2% J=±5% K=±10%

1. Inductance is measured in HP-4287A RF LCR meter with HP-16193 fixture.

2. Q is measured in HP-4287A RF LCR meter with HP-16193 fixture.

3. SRF is measured in ENA E5071B network analyzer or equivalent.

4. RDC is measured in HP-4338B milliohm meter or equivalent.

5. For 15°C Rise.

Unit weight = 0.0049g (for ref.)

SWI0402/0603/0805/1008/1210-CT Series

■ SWI0805-CT Series

DWG. No.	Inductance ¹ (nH)	Tolerance	Q ² min.	SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	IDC ⁵ (mA) max.
SWI0805CT2N2□-□□	2.2 @ 250MHz	B, S	50 @ 1000MHz	6000	0.06	800
SWI0805CT2N7□-□□	2.7 @ 250MHz	B, S	35 @ 1000MHz	6000	0.08	800
SWI0805CT3N3□-□□	3.3 @ 250MHz	B, S	60 @ 1000MHz	6000	0.08	800
SWI0805CT3N9□-□□	3.9 @ 250MHz	B, S	60 @ 1000MHz	6000	0.06	600
SWI0805CT4N7□-□□	4.7 @ 250MHz	B, S	60 @ 1000MHz	5800	0.06	600
SWI0805CT5N1□-□□	5.1 @ 250MHz	B, J, K	60 @ 1000MHz	5800	0.08	600
SWI0805CT5N6□-□□	5.6 @ 250MHz	B, J, K	60 @ 1000MHz	5800	0.08	600
SWI0805CT6N8□-□□	6.8 @ 250MHz	B, J, K	60 @ 1000MHz	5500	0.06	600
SWI0805CT8N2□-□□	8.2 @ 250MHz	B, J, K	60 @ 1000MHz	5500	0.06	600
SWI0805CT10N□-□□	10.0 @ 250MHz	G, J, K	60 @ 500MHz	4800	0.08	600
SWI0805CT12N□-□□	12.0 @ 250MHz	G, J, K	60 @ 500MHz	4100	0.08	600
SWI0805CT15N□-□□	15.0 @ 250MHz	G, J, K	60 @ 500MHz	3600	0.08	600
SWI0805CT18N□-□□	18.0 @ 250MHz	G, J, K	60 @ 500MHz	3400	0.08	600
SWI0805CT22N□-□□	22.0 @ 250MHz	G, J, K	60 @ 500MHz	3300	0.10	600
SWI0805CT27N□-□□	27.0 @ 250MHz	G, J, K	60 @ 500MHz	2600	0.12	600
SWI0805CT33N□-□□	33.0 @ 250MHz	G, J, K	60 @ 500MHz	2400	0.15	500
SWI0805CT39N□-□□	39.0 @ 250MHz	G, J, K	60 @ 500MHz	2100	0.18	500
SWI0805CT47N□-□□	47.0 @ 200MHz	G, J, K	60 @ 500MHz	1700	0.15	500
SWI0805CT56N□-□□	56.0 @ 200MHz	G, J, K	60 @ 500MHz	1600	0.25	500
SWI0805CT68N□-□□	68.0 @ 200MHz	G, J, K	60 @ 500MHz	1450	0.27	500
SWI0805CT82N□-□□	82.0 @ 150MHz	G, J, K	60 @ 500MHz	1350	0.32	500
SWI0805CTR10□-□□	100.0 @ 150MHz	G, J, K	60 @ 500MHz	1200	0.43	500
SWI0805CTR12□-□□	120.0 @ 150MHz	G, J, K	50 @ 250MHz	1100	0.48	500
SWI0805CTR15□-□□	150.0 @ 100MHz	G, J, K	50 @ 250MHz	950	0.56	400
SWI0805CTR18□-□□	180.0 @ 100MHz	G, J, K	50 @ 250MHz	900	0.78	400
SWI0805CTR22□-□□	220.0 @ 100MHz	G, J, K	50 @ 250MHz	860	1.00	400
SWI0805CTR27□-□□	270.0 @ 100MHz	G, J, K	45 @ 250MHz	850	1.46	350
SWI0805CTR33□-□□	330.0 @ 100MHz	G, J, K	45 @ 250MHz	800	1.65	300
SWI0805CTR39□-□□	390.0 @ 100MHz	G, J, K	45 @ 250MHz	780	2.20	210

Tolerance: B=±0.2nH S=±0.3nH G=±2% J=±5% K=±10%

1. Inductance is measured in HP-4287A RF LCR meter with HP-16193 fixture.

2. Q is measured in HP-4287A RF LCR meter with HP-16193 fixture.

3. SRF is measured in ENA E5071B network analyzer or equivalent.

4. RDC is measured in HP-4338B milliohm meter or equivalent.

5. For 15°C Rise.

Unit weight = 0.0084g (for ref.)

SWI0402/0603/0805/1008/1210-CT Series

■ SWI1008-CT Series

DWG. No.	Inductance ¹ (nH)	Tolerance	Q ² min.	SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	IDC ⁵ (mA) max.
SWI1008CT3N3□-□□	3.3 @ 100MHz	B, S	50 @ 1000MHz	6000	0.06	1000
SWI1008CT3N9□-□□	3.9 @ 100MHz	B, S	38 @ 1000MHz	5500	0.10	1000
SWI1008CT5N6□-□□	5.6 @ 100MHz	B, J, K	50 @ 1000MHz	5500	0.06	1000
SWI1008CT6N8□-□□	6.8 @ 100MHz	B, J, K	50 @ 1000MHz	5500	0.06	1000
SWI1008CT8N2□-□□	8.2 @ 100MHz	B, J, K	50 @ 1000MHz	5500	0.06	1000
SWI1008CT10N□-□□	10.0 @ 100MHz	G, J, K	50 @ 1000MHz	4300	0.08	1000
SWI1008CT12N□-□□	12.0 @ 100MHz	G, J, K	60 @ 500MHz	3600	0.08	1000
SWI1008CT15N□-□□	15.0 @ 100MHz	G, J, K	60 @ 500MHz	2700	0.08	1000
SWI1008CT18N□-□□	18.0 @ 100MHz	G, J, K	60 @ 350MHz	2700	0.10	1000
SWI1008CT22N□-□□	22.0 @ 100MHz	G, J, K	60 @ 350MHz	2500	0.10	1000
SWI1008CT27N□-□□	27.0 @ 100MHz	G, J, K	60 @ 350MHz	1800	0.10	1000
SWI1008CT33N□-□□	33.0 @ 100MHz	G, J, K	60 @ 350MHz	1700	0.10	1000
SWI1008CT39N□-□□	39.0 @ 100MHz	G, J, K	60 @ 350MHz	1500	0.10	1000
SWI1008CT47N□-□□	47.0 @ 100MHz	G, J, K	60 @ 350MHz	1500	0.10	1000
SWI1008CT56N□-□□	56.0 @ 100MHz	G, J, K	60 @ 350MHz	1350	0.12	1000
SWI1008CT68N□-□□	68.0 @ 100MHz	G, J, K	60 @ 350MHz	1300	0.15	1000
SWI1008CT82N□-□□	82.0 @ 100MHz	G, J, K	60 @ 350MHz	1100	0.18	1000
SWI1008CTR10□-□□	100.0 @ 100MHz	G, J, K	60 @ 350MHz	1100	0.18	1000
SWI1008CTR12□-□□	120.0 @ 25.2MHz	G, J, K	45 @ 100MHz	950	0.20	800
SWI1008CTR15□-□□	150.0 @ 25.2MHz	G, J, K	45 @ 100MHz	880	0.22	800
SWI1008CTR18□-□□	180.0 @ 25.2MHz	G, J, K	45 @ 100MHz	800	0.33	800
SWI1008CTR22□-□□	220.0 @ 25.2MHz	G, J, K	45 @ 100MHz	730	0.45	800
SWI1008CTR27□-□□	270.0 @ 25.2MHz	G, J, K	45 @ 100MHz	650	0.75	600
SWI1008CTR33□-□□	330.0 @ 25.2MHz	G, J, K	45 @ 100MHz	570	0.90	500
SWI1008CTR39□-□□	390.0 @ 25.2MHz	G, J, K	45 @ 100MHz	530	1.06	470
SWI1008CTR47□-□□	470.0 @ 25.2MHz	G, J, K	45 @ 100MHz	480	1.17	420
SWI1008CTR56□-□□	560.0 @ 25.2MHz	G, J, K	45 @ 100MHz	430	1.50	310
SWI1008CTR68□-□□	680.0 @ 25.2MHz	G, J, K	45 @ 100MHz	380	2.06	230
SWI1008CTR75□-□□	750.0 @ 25.2MHz	G, J, K	45 @ 100MHz	360	2.20	200
SWI1008CTR82□-□□	820.0 @ 25.2MHz	G, J, K	45 @ 100MHz	350	2.30	180
SWI1008CTR91□-□□	910.0 @ 25.2MHz	G, J, K	45 @ 100MHz	330	3.18	150
SWI1008CT1R0□-□□	1000.0 @ 25.2MHz	G, J, K	35 @ 50MHz	310	3.30	120

Tolerance: B=±0.2nH S=±0.3nH G=±2% J=±5% K=±10%

1. Inductance is measured in HP-4287A RF LCR meter with HP-16193 fixture.

2. Q is measured in HP-4287A RF LCR meter with HP-16193 fixture.

3. SRF is measured in ENA E5071B network analyzer or equivalent.

4. RDC is measured in HP-4338B milliohm meter or equivalent.

5. For 15°C Rise.

Unit weight = 0.025g (for ref.)

SWI0402/0603/0805/1008/1210-CT Series

■ SWI1210-CT Series

DWG. No.	Inductance ¹ (nH)	Tolerance	Q ² min.	SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	IDC ⁵ (mA) max.
SWI1210CT4N7□-□□	4.7 @ 100MHz	B, S	50 @ 1000MHz	6000	0.06	1000
SWI1210CT5N6□-□□	5.6 @ 100MHz	B, J, K	50 @ 1000MHz	5500	0.08	1000
SWI1210CT10N□-□□	10.0 @ 100MHz	G, J, K	60 @ 500MHz	4000	0.06	1000
SWI1210CT12N□-□□	12.0 @ 100MHz	G, J, K	60 @ 500MHz	3400	0.06	1000
SWI1210CT15N□-□□	15.0 @ 100MHz	G, J, K	60 @ 500MHz	3200	0.06	1000
SWI1210CT18N□-□□	18.0 @ 100MHz	G, J, K	60 @ 300MHz	2800	0.06	1000
SWI1210CT22N□-□□	22.0 @ 100MHz	G, J, K	60 @ 300MHz	2100	0.08	1000
SWI1210CT27N□-□□	27.0 @ 100MHz	G, J, K	60 @ 300MHz	1900	0.08	1000
SWI1210CT33N□-□□	33.0 @ 100MHz	G, J, K	60 @ 300MHz	1700	0.08	1000
SWI1210CT39N□-□□	39.0 @ 100MHz	G, J, K	60 @ 300MHz	1700	0.08	1000
SWI1210CT47N□-□□	47.0 @ 100MHz	G, J, K	60 @ 300MHz	1400	0.08	1000
SWI1210CT56N□-□□	56.0 @ 100MHz	G, J, K	60 @ 300MHz	1100	0.10	1000
SWI1210CT68N□-□□	68.0 @ 100MHz	G, J, K	60 @ 300MHz	1000	0.10	1000
SWI1210CT82N□-□□	82.0 @ 100MHz	G, J, K	60 @ 300MHz	1000	0.10	1000
SWI1210CTR10□-□□	100.0 @ 100MHz	G, J, K	60 @ 300MHz	900	0.10	1000
SWI1210CTR12□-□□	120.0 @ 50MHz	G, J, K	60 @ 300MHz	900	0.12	800
SWI1210CTR15□-□□	150.0 @ 50MHz	G, J, K	60 @ 300MHz	800	0.18	800
SWI1210CTR18□-□□	180.0 @ 50MHz	G, J, K	60 @ 300MHz	760	0.21	800
SWI1210CTR22□-□□	220.0 @ 50MHz	G, J, K	60 @ 300MHz	660	0.27	800
SWI1210CTR27□-□□	270.0 @ 50MHz	G, J, K	50 @ 300MHz	600	0.33	700
SWI1210CTR33□-□□	330.0 @ 50MHz	G, J, K	50 @ 100MHz	550	0.37	650
SWI1210CTR39□-□□	390.0 @ 50MHz	G, J, K	50 @ 100MHz	500	0.63	600
SWI1210CTR47□-□□	470.0 @ 50MHz	G, J, K	50 @ 100MHz	450	0.69	550
SWI1210CTR56□-□□	560.0 @ 50MHz	G, J, K	50 @ 100MHz	400	0.90	450
SWI1210CTR68□-□□	680.0 @ 25MHz	G, J, K	50 @ 100MHz	380	1.05	400
SWI1210CTR82□-□□	820.0 @ 25MHz	G, J, K	50 @ 100MHz	350	1.45	350
SWI1210CT1R0□-□□	1000.0 @ 25MHz	G, J, K	45 @ 100MHz	300	1.90	280
SWI1210CT1R2□-□□	1200.0 @ 7.96MHz	J, K	45 @ 50MHz	300	2.20	250
SWI1210CT1R5□-□□	1500.0 @ 7.96MHz	J, K	45 @ 50MHz	250	2.43	220
SWI1210CT1R8□-□□	1800.0 @ 7.96MHz	J, K	45 @ 50MHz	200	3.36	180
SWI1210CT2R2□-□□	2200.0 @ 7.96MHz	J, K	40 @ 50MHz	200	3.50	150

Tolerance: B=±0.2nH S=±0.3nH G=±2% J=±5% K=±10%

1. Inductance is measured in HP-4287A RF LCR meter with HP-16193 fixture.
2. Q is measured in HP-4287A RF LCR meter with HP-16193 fixture.
3. SRF is measured in ENA E5071B network analyzer or equivalent.

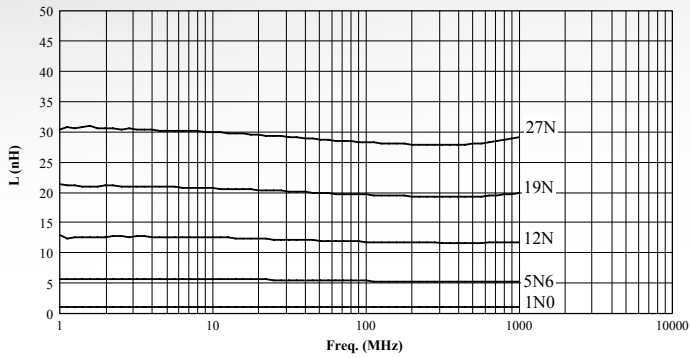
4. RDC is measured in HP-4338B milliohm meter or equivalent.
5. For 15°C Rise.
Unit weight = 0.045g (for ref.)

SWI0402/0603/0805/1008/1210-CT Series

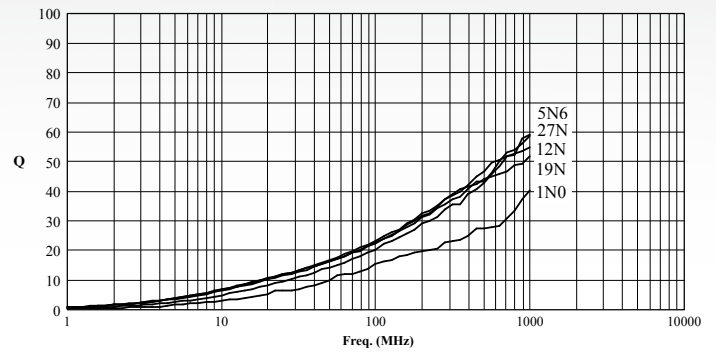
CURVE

■ SWI0402-CT Series

L vs Freq Plot

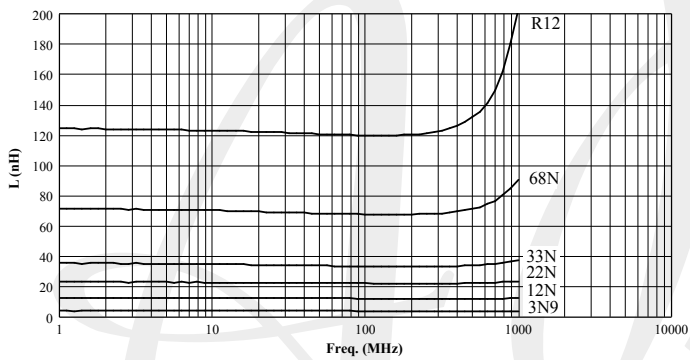


Q vs Freq Plot

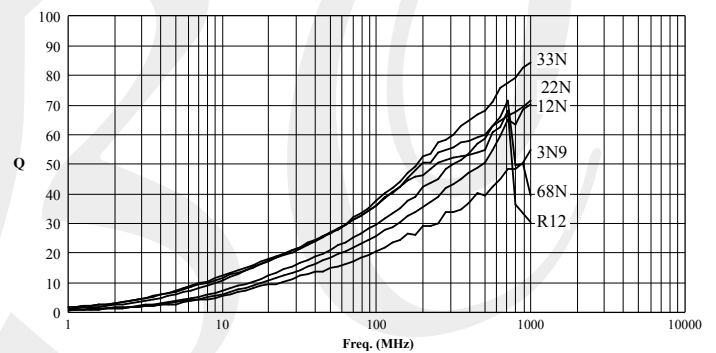


■ SWI0603-CT Series

L vs Freq Plot

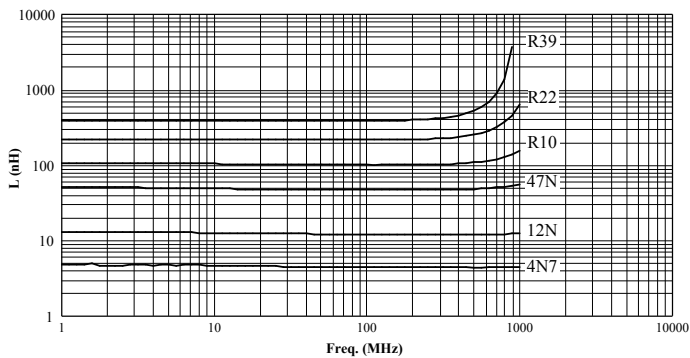


Q vs Freq Plot

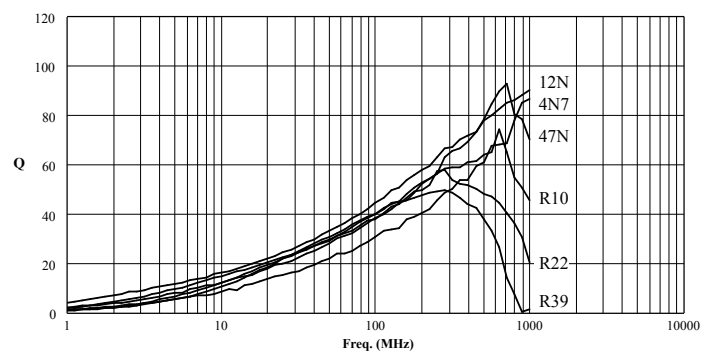


■ SWI0805-CT Series

L vs Freq Plot



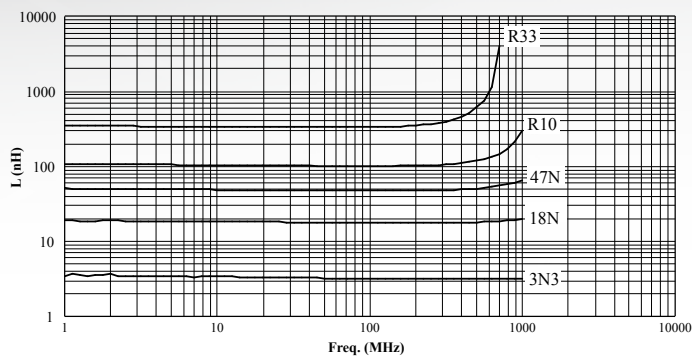
Q vs Freq Plot



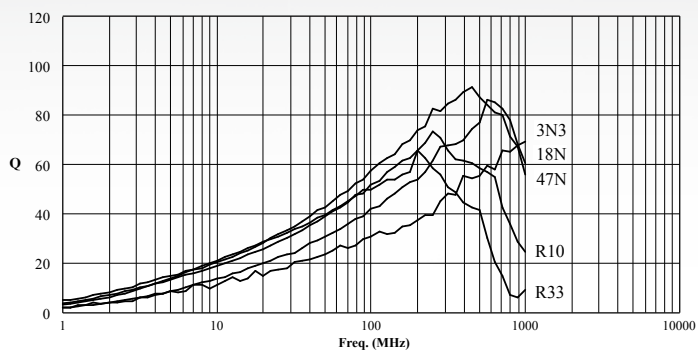
SWI0402/0603/0805/1008/1210-CT Series

■ SWI1008-CT Series

L vs Freq Plot

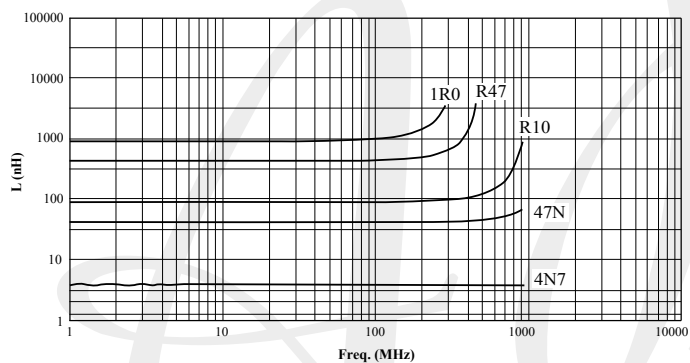


Q vs Freq Plot

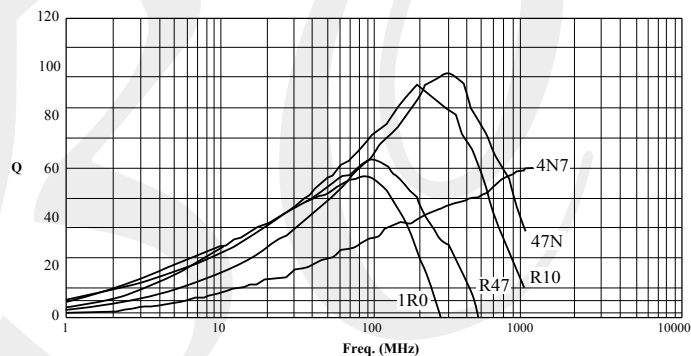


■ SWI1210-CT Series

L vs Freq Plot

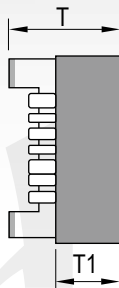
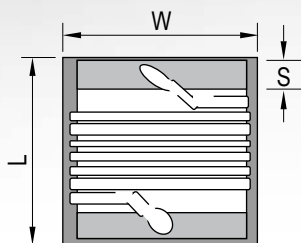


Q vs Freq Plot



SWI0603/0805-CS Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	L	W	T	S	T1
SWI0603-CS	1.65±0.20	1.15±0.20	0.90±0.2	0.30±0.10	0.50 ref.
SWI0805-CS	2.28±0.20	1.70±0.20	1.28±0.20	0.51	0.60 ref.

DESCRIPTION

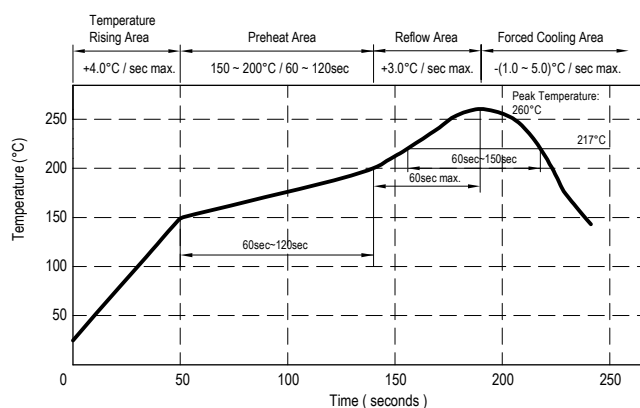
- Wire wound type inductor
- Ceramic core with gold plating terminals
- Comply with RoHS' requirement
- Product weight: 0.0037 (0603) / 0.0084 (0805)g (ref.)

FEATURES & APPLICATION

- Wire wound on ceramic body with Au terminal & resin potting package.
- Recommended for reflow soldering PCB assembly.
- Excellent inductance vs temperature coefficient & High self resonant frequency up to GHz, especially for high frequency application such as RF transceiver & wireless communication.

GENERAL SPECIFICATION

- Storage condition:
Temp.: -10 ~ +40°C
Humidity: 30% to 70% relative humidity
- Operating temp.: -40°C to +125°C
- Recommended IR reflow:
Peak Temp.: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



SWI0603/0805-CS Series

ELECTRICAL CHARACTERISTICS

■ SWI0603-CS Series

DWG. No.	Inductance ¹ (nH)	Tolerance	Q ² min.	SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	IDC ⁵ (mA) max.
SWI0603CS1N6□-□□	1.6 @ 250MHz	B, S, K	18 @ 250MHz	12500	0.030	700
SWI0603CS1N8□-□□	1.8 @ 250MHz	B, S, K	16 @ 250MHz	>8500	0.045	700
SWI0603CS2N2□-□□	2.2 @ 250MHz	B, S, K	13 @ 250MHz	>8500	0.110	700
SWI0603CS3N3□-□□	3.3 @ 250MHz	J, K	35 @ 250MHz	6000	0.045	700
SWI0603CS3N6□-□□	3.6 @ 250MHz	J, K	22 @ 250MHz	6000	0.070	700
SWI0603CS3N9□-□□	3.9 @ 250MHz	J, K	22 @ 250MHz	6900	0.070	700
SWI0603CS4N3□-□□	4.3 @ 250MHz	J, K	22 @ 250MHz	5900	0.070	700
SWI0603CS4N7□-□□	4.7 @ 250MHz	J, K	20 @ 250MHz	5800	0.080	700
SWI0603CS5N1□-□□	5.1 @ 250MHz	J, K	18 @ 250MHz	5700	0.150	700
SWI0603CS5N6□-I	5.6 @ 250MHz	J, K	16 @ 250MHz	5500	0.190	700
SWI0603CS6N2□-□□	6.2 @ 250MHz	J, K	25 @ 250MHz	5800	0.100	700
SWI0603CS6N8□-□□	6.8 @ 250MHz	G, J, K	27 @ 250MHz	5800	0.100	700
SWI0603CS7N5□-□□	7.5 @ 250MHz	G, J, K	28 @ 250MHz	4800	0.100	700
SWI0603CS8N2□-□□	8.2 @ 250MHz	G, J, K	28 @ 250MHz	4700	0.100	700
SWI0603CS8N7□-□□	8.7 @ 250MHz	G, J, K	28 @ 250MHz	4600	0.100	700
SWI0603CS9N5□-□□	9.5 @ 250MHz	G, J, K	28 @ 250MHz	5400	0.100	700
SWI0603CS10N□-□□	10.0 @ 250MHz	G, J, K	31 @ 250MHz	4800	0.100	700
SWI0603CS11N□-□□	11.0 @ 250MHz	G, J, K	30 @ 250MHz	4000	0.100	700
SWI0603CS12N□-□□	12.0 @ 250MHz	G, J, K	32 @ 250MHz	4000	0.100	700
SWI0603CS13N□-□□	13.0 @ 250MHz	G, J, K	38 @ 250MHz	3600	0.100	700
SWI0603CS15N□-□□	15.0 @ 250MHz	G, J, K	35 @ 250MHz	4000	0.120	700
SWI0603CS16N□-□□	16.0 @ 250MHz	G, J, K	35 @ 250MHz	3300	0.120	700
SWI0603CS18N□-□□	18.0 @ 250MHz	G, J, K	35 @ 250MHz	3100	0.120	700
SWI0603CS20N□-□□	20.0 @ 250MHz	G, J, K	35 @ 250MHz	3100	0.120	700
SWI0603CS22N□-□□	22.0 @ 250MHz	G, J, K	35 @ 250MHz	3000	0.150	700
SWI0603CS23N□-□□	23.0 @ 250MHz	G, J, K	38 @ 250MHz	2850	0.140	700
SWI0603CS24N□-□□	24.0 @ 250MHz	G, J, K	35 @ 250MHz	2650	0.140	700
SWI0603CS27N□-□□	27.0 @ 250MHz	G, J, K	35 @ 250MHz	2800	0.200	600
SWI0603CS30N□-□□	30.0 @ 250MHz	G, J, K	37 @ 250MHz	2250	0.144	600
SWI0603CS33N□-□□	33.0 @ 250MHz	G, J, K	36 @ 250MHz	2300	0.200	600
SWI0603CS36N□-□□	36.0 @ 250MHz	G, J, K	36 @ 250MHz	2080	0.200	600
SWI0603CS39N□-□□	39.0 @ 250MHz	G, J, K	36 @ 250MHz	2200	0.210	600
SWI0603CS43N□-□□	43.0 @ 250MHz	G, J, K	38 @ 250MHz	2000	0.220	600
SWI0603CS47N□-□□	47.0 @ 200MHz	G, J, K	35 @ 200MHz	2000	0.230	600
SWI0603CS51N□-□□	51.0 @ 200MHz	G, J, K	32 @ 200MHz	1950	0.240	600
SWI0603CS56N□-□□	56.0 @ 200MHz	G, J, K	32 @ 200MHz	1900	0.250	600
SWI0603CS68N□-□□	68.0 @ 200MHz	G, J, K	32 @ 200MHz	1700	0.350	600
SWI0603CS72N□-□□	72.0 @ 150MHz	G, J, K	34 @ 150MHz	1700	0.490	400
SWI0603CS82N□-□□	82.0 @ 150MHz	G, J, K	30 @ 150MHz	1700	0.580	400
SWI0603CSR10□-□□	100.0 @ 150MHz	G, J, K	34 @ 150MHz	1400	0.580	400
SWI0603CSR11□-□□	110.0 @ 150MHz	G, J, K	33 @ 150MHz	1350	0.610	300
SWI0603CSR12□-□□	120.0 @ 150MHz	G, J, K	30 @ 150MHz	1300	0.650	300
SWI0603CSR15□-□□	150.0 @ 100MHz	G, J, K	30 @ 150MHz	990	0.850	280
SWI0603CSR18□-□□	180.0 @ 100MHz	G, J, K	25 @ 100MHz	990	1.000	250
SWI0603CSR22□-□□	220.0 @ 100MHz	G, J, K	25 @ 100MHz	900	1.800	250
SWI0603CSR27□-□□	270.0 @ 100MHz	G, J, K	25 @ 100MHz	822	2.100	200
SWI0603CSR33□-□□	330.0 @ 100MHz	J, K	25 @ 100MHz	500	2.300	150
SWI0603CSR39□-□□	390.0 @ 100MHz	J, K	25 @ 100MHz	350	2.900	130

Tolerance: B=±0.2nH S=±0.3nH G=±2% J=±5% K=±10%

1. Inductance is measured in HP-4287A RF LCR meter with HP-16193 fixture.

2. Q is measured in HP-4287A RF LCR meter with HP-16193 fixture.

3. SRF is measured in ENA E5071B network analyzer or equivalent.

4. RDC is measured in HP-4338B milliohm meter or equivalent.

5. For 15°C Rise.

Unit weight = 0.0037g ref. (For CS series).

Unit weight = 0.0049g ref. (For 5N6 only).

SWI0603/0805-CS Series

■ SWI0805-CS Series

DWG. No.	Inductance ¹ (nH)	Tolerance	Q ² min.	SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	IDC ⁵ (mA) max.
SWI0805CS2N7□-□□	2.70 @ 250MHz	B, S, K	30 @ 1000MHz	7900	0.10	800
SWI0805CS5N6□-□□	5.60 @ 250MHz	J, K	40 @ 1000MHz	5500	0.10	600
SWI0805CS6N8□-□□	6.80 @ 250MHz	G, J, K	50 @ 1000MHz	5500	0.11	600
SWI0805CS7N5□-□□	7.50 @ 250MHz	G, J, K	50 @ 1000MHz	4800	0.14	600
SWI0805CS8N2□-□□	8.20 @ 250MHz	G, J, K	50 @ 1000MHz	4400	0.12	600
SWI0805CS10N□-□□	10.00 @ 250MHz	G, J, K	50 @ 1000MHz	4200	0.12	600
SWI0805CS12N□-□□	12.00 @ 250MHz	G, J, K	45 @ 500MHz	4000	0.15	600
SWI0805CS15N□-□□	15.00 @ 250MHz	G, J, K	50 @ 500MHz	3400	0.17	600
SWI0805CS18N□-□□	18.00 @ 250MHz	G, J, K	50 @ 500MHz	3300	0.20	500
SWI0805CS22N□-□□	22.00 @ 250MHz	G, J, K	55 @ 500MHz	2600	0.22	500
SWI0805CS27N□-□□	27.00 @ 250MHz	G, J, K	55 @ 500MHz	2500	0.25	500
SWI0805CS33N□-□□	33.00 @ 250MHz	G, J, K	60 @ 500MHz	2050	0.27	500
SWI0805CS39N□-□□	39.00 @ 250MHz	G, J, K	50 @ 500MHz	2000	0.29	500
SWI0805CS47N□-□□	47.00 @ 200MHz	G, J, K	50 @ 500MHz	1650	0.31	500
SWI0805CS56N□-□□	56.00 @ 200MHz	G, J, K	50 @ 500MHz	1550	0.34	500
SWI0805CS68N□-□□	68.00 @ 200MHz	G, J, K	50 @ 500MHz	1450	0.38	500
SWI0805CS82N□-□□	82.00 @ 150MHz	G, J, K	50 @ 500MHz	1300	0.42	400
SWI0805CSR10□-□□	100.00 @ 150MHz	G, J, K	50 @ 500MHz	1200	0.46	400
SWI0805CSR12□-□□	120.00 @ 150MHz	G, J, K	35 @ 250MHz	1100	0.51	400
SWI0805CSR15□-□□	150.00 @ 100MHz	G, J, K	40 @ 250MHz	920	0.56	400
SWI0805CSR18□-□□	180.00 @ 100MHz	G, J, K	35 @ 250MHz	870	0.96	400
SWI0805CSR22□-□□	220.00 @ 100MHz	G, J, K	35 @ 250MHz	850	1.00	400
SWI0805CSR27□-□□	270.00 @ 100MHz	G, J, K	35 @ 250MHz	650	1.29	350
SWI0805CSR33□-□□	330.00 @ 100MHz	G, J, K	35 @ 250MHz	600	1.56	310
SWI0805CSR39□-□□	390.00 @ 100MHz	G, J, K	35 @ 250MHz	560	2.10	290
SWI0805CSR47□-□□	470.00 @ 50MHz	J, K	30 @ 100MHz	375	2.30	250
SWI0805CSR56□-□□	560.00 @ 25MHz	J, K	23 @ 50MHz	340	2.50	230
SWI0805CSR62□-□□	620.00 @ 25MHz	J, K	23 @ 50MHz	188	2.70	400
SWI0805CSR68□-□□	680.00 @ 25MHz	J, K	23 @ 50MHz	188	2.80	190
SWI0805CSR75□-□□	750.00 @ 25MHz	J, K	23 @ 50MHz	230	3.00	185
SWI0805CSR82□-□□	820.00 @ 25MHz	J, K	23 @ 50MHz	215	3.90	180
SWI0805CS1R0□-□□	1000.00 @ 25MHz	J, K	23 @ 50MHz	285	4.20	150
SWI0805CS1R2□-□□	1200.00 @ 7.9MHz	J, K	20 @ 25MHz	200	4.60	150
SWI0805CS1R5□-□□	1500.00 @ 7.9MHz	J, K	20 @ 25MHz	200	5.30	130
SWI0805CS1R8□-□□	1800.00 @ 7.9MHz	J, K	20 @ 25MHz	120	6.10	120

Tolerance: B=±0.2nH S=±0.3nH G=±2% J=±5% K=±10%

1. Inductance is measured in HP-4287A RF LCR meter with HP-16193 fixture.
2. Q is measured in HP-4287A RF LCR meter with HP-16193 fixture.
3. SRF is measured in ENA E5071B network analyzer or equivalent.

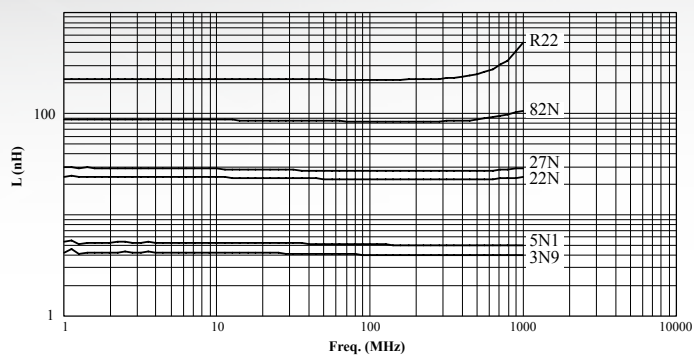
4. RDC is measured in HP-4338B milliohm meter or equivalent.
5. For 15°C Rise.

SWI0603/0805-CS Series

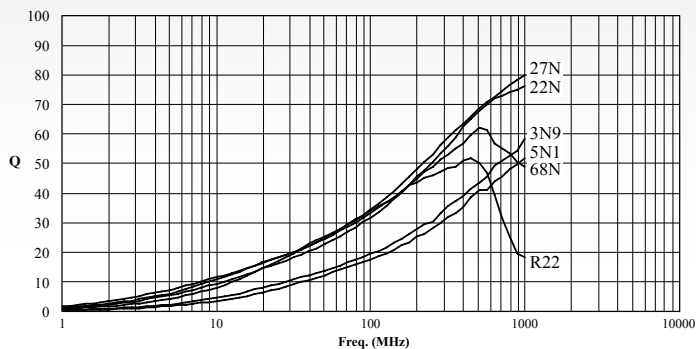
CURVE

■ SWI0603-CS Series

L vs Freq Plot

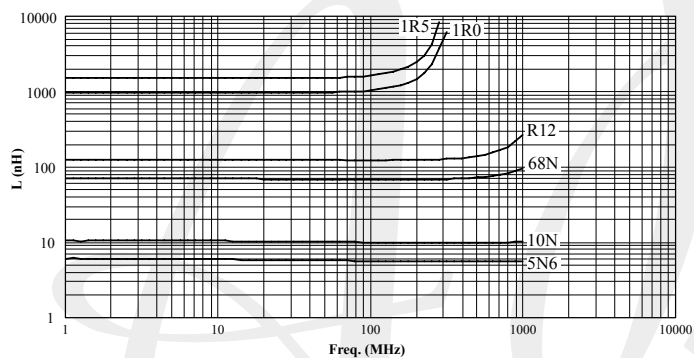


Q vs Freq Plot

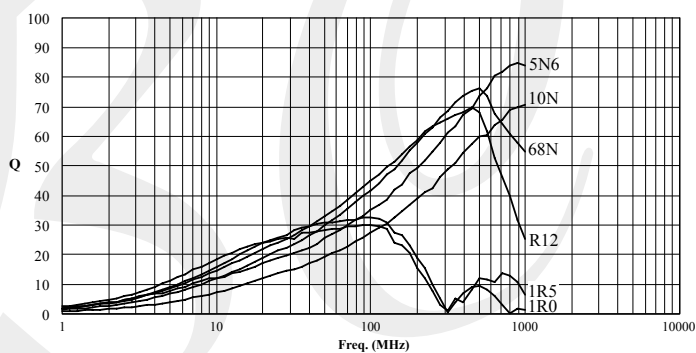


■ SWI0805-CS Series

L vs Freq Plot

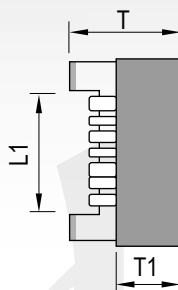
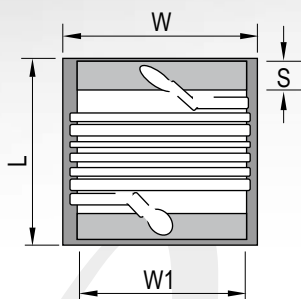


Q vs Freq Plot



SWI0805/1008/1210-FT Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	L	W	T	S	L1	W1	T1
SWI0805-FT	2.00±0.20	1.25±0.20	1.20±0.20	0.40±0.10	1.20 ref.	0.95~1.2 ref.	0.60 ref.
SWI1008-FT	2.60±0.20	2.10±0.20	1.70±0.20	0.50±0.10	1.40 ref.	1.60~1.9 ref.	0.70 ref.
SWI1210-FT	3.20±0.20	2.60±0.20	2.10±0.20	0.50±0.10	2.10 ref.	2.40 ref.	1.10 ref.

DESCRIPTION

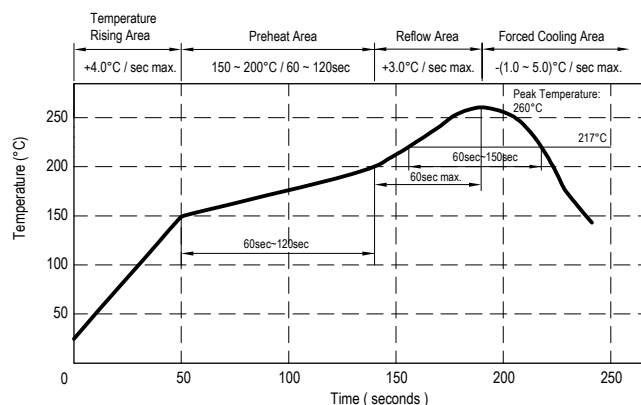
- Wire wound type inductor
- Ferrite core with tin plating terminals
- Comply with RoHS' requirement
- Product weight: 0.0084 (0805) / 0.025 (1008) / 0.045 (1210)g (ref.)

FEATURES & APPLICATION

- Wire wound on ferrite body with Sn terminal & resin potting package.
- Recommended for reflow soldering PCB assembly.
- Excellent inductance vs temperature coefficient & High self resonant frequency up to GHz, especially for high frequency application such as RF transceiver & wireless communication.

GENERAL SPECIFICATION

- Storage condition:
Temp.: -10 ~ +40°C
Humidity: 30% to 70% relative humidity
- Operating temp.: -40°C to +85°C
- Recommended IR reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



SWI0805/1008/1210-FT Series

ELECTRICAL CHARACTERISTICS

■ SWI0805-FT Series

DWG. No.	Inductance ¹ (uH)	Tolerance	Q ² min.	SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	IDC ⁵ (mA) max.
SWI0805FTR47□-□□	0.47 @ 25.2MHz	J, K	45 @ 100MHz	375	0.95	500
SWI0805FTR56□-□□	0.56 @ 25.2MHz	J, K	45 @ 100MHz	340	1.10	450
SWI0805FTR68□-□□	0.68 @ 25.2MHz	J, K	35 @ 100MHz	188	1.20	400
SWI0805FTR82□-□□	0.82 @ 25.2MHz	J, K	35 @ 100MHz	215	1.50	300
SWI0805FT1R0□-□□	1.00 @ 25.2MHz	J, K	35 @ 50MHz	200	2.13	180
SWI0805FT1R2□-□□	1.20 @ 7.96MHz	J, K	15 @ 7.96MHz	200	2.60	150
SWI0805FT1R5□-□□	1.50 @ 7.96MHz	J, K	15 @ 7.96MHz	200	2.90	130
SWI0805FT1R8□-□□	1.80 @ 7.96MHz	J, K	15 @ 7.96MHz	120	3.00	120
SWI0805FT2R2□-□□	2.20 @ 7.96MHz	J, K	15 @ 7.96MHz	110	3.10	110
SWI0805FT2R7□-□□	2.70 @ 7.96MHz	J, K	15 @ 7.96MHz	100	3.50	100
SWI0805FT3R3□-□□	3.30 @ 7.96MHz	J, K	15 @ 7.96MHz	70	2.30	210
SWI0805FT3R9□-□□	3.90 @ 7.96MHz	J, K	15 @ 7.96MHz	60	2.50	200
SWI0805FT4R7□-□□	4.70 @ 7.96MHz	J, K	15 @ 7.96MHz	50	2.80	180
SWI0805FT5R6□-□□	5.60 @ 7.96MHz	J, K	15 @ 7.96MHz	45	3.00	160
SWI0805FT6R8□-□□	6.80 @ 7.96MHz	J, K	15 @ 7.96MHz	45	3.20	130
SWI0805FT8R2□-□□	8.20 @ 7.96MHz	J, K	15 @ 7.96MHz	40	3.50	120
SWI0805FT100□-□□	10.00 @ 2.52MHz	J, K	15 @ 2.52MHz	40	5.00	80

Tolerance: J=±5% K=±10%

1. Inductance is measured in HP-4285A LCR meter with HP-16193 fixture.
2. Q is measured in HP-4285A Precision LCR meter, RF LCR meter with HP-16193 fixture.

3. SRF is measured in ENA E5071B network analyzer or equivalent.

4. RDC is measured in HP-4338B milliohm meter or equivalent.

5. For 15°C Rise.

Unit weight = 0.0084g (for ref.)

■ SWI1008-FT Series

DWG. No.	Inductance ¹ (uH)	Tolerance	Q ² min.	SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	IDC ⁵ (mA) max.
SWI1008FTR47□-□□	0.47 @ 25MHz	J, K	45 @ 100MHz	480	0.55	500
SWI1008FTR56□-□□	0.56 @ 25MHz	J, K	45 @ 100MHz	430	0.60	500
SWI1008FTR68□-□□	0.68 @ 25MHz	J, K	45 @ 100MHz	380	0.80	500
SWI1008FTR82□-□□	0.82 @ 25MHz	J, K	45 @ 100MHz	350	0.92	500
SWI1008FT1R0□-□□	1.00 @ 25MHz	J, K	35 @ 50MHz	310	1.75	430
SWI1008FT1R2□-□□	1.20 @ 7.96MHz	J, K	20 @ 7.96MHz	280	1.30	230
SWI1008FT1R5□-□□	1.50 @ 7.96MHz	J, K	20 @ 7.96MHz	250	1.65	220
SWI1008FT1R8□-□□	1.80 @ 7.96MHz	J, K	20 @ 7.96MHz	200	2.20	210
SWI1008FT2R2□-□□	2.20 @ 7.96MHz	J, K	20 @ 7.96MHz	160	2.35	200
SWI1008FT2R7□-□□	2.70 @ 7.96MHz	J, K	20 @ 7.96MHz	130	2.60	195
SWI1008FT3R3□-□□	3.30 @ 7.96MHz	J, K	20 @ 7.96MHz	80	2.85	185
SWI1008FT3R9□-□□	3.90 @ 7.96MHz	J, K	20 @ 7.96MHz	50	4.00	180
SWI1008FT4R7□-□□	4.70 @ 7.96MHz	J, K	20 @ 7.96MHz	45	4.30	175
SWI1008FT5R6□-□□	5.60 @ 7.96MHz	J, K	20 @ 7.96MHz	42	2.60	170
SWI1008FT6R8□-□□	6.80 @ 7.96MHz	J, K	20 @ 7.96MHz	39	2.80	165
SWI1008FT8R2□-□□	8.20 @ 7.96MHz	J, K	20 @ 7.96MHz	36	3.05	160
SWI1008FT100□-□□	10.00 @ 2.52MHz	J, K	15 @ 2.52MHz	33	3.50	150
SWI1008FT120□-□□	12.00 @ 2.52MHz	J, K	15 @ 2.52MHz	30	3.60	140
SWI1008FT150□-□□	15.00 @ 2.52MHz	J, K	15 @ 2.52MHz	26	4.00	130
SWI1008FT180□-□□	18.00 @ 2.52MHz	J, K	15 @ 2.52MHz	24	4.50	120
SWI1008FT220□-□□	22.00 @ 2.52MHz	J, K	15 @ 2.52MHz	22	5.00	110
SWI1008FT270□-□□	27.00 @ 2.52MHz	J, K	15 @ 2.52MHz	21	6.00	95
SWI1008FT330□-□□	33.00 @ 2.52MHz	J, K	15 @ 2.52MHz	20	6.50	85
SWI1008FT390□-□□	39.00 @ 2.52MHz	J, K	15 @ 2.52MHz	18	8.50	60
SWI1008FT470□-□□	47.00 @ 2.52MHz	J, K	15 @ 2.52MHz	17	14.00	45

Tolerance: J=±5% K=±10%

1. Inductance is measured in HP-4287A RF LCR meter with HP-16193 test fixture
2. Q is measured in HP-4287A RF LCR meter with HP-16193 test fixture
3. SRF is measured in ENA E5071B network analyzer or equivalent.

4. RDC is measured in HP-4338B milliohm meter or equivalent.

5. For 15°C Rise.

Unit weight = 0.025g (for ref.)

SWI0805/1008/1210-FT Series

■ SWI1210-FT Series

DWG. No.	Inductance ¹ (μ H)	Tolerance	Q ² min.	SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	IDC ⁵ (mA) max.
SWI1210FT1R2□-□□	1.2 @ 7.96MHz	J, K	30 @ 7.96MHz	100	0.70	390
SWI1210FT1R5□-□□	1.5 @ 7.96MHz	J, K	30 @ 7.96MHz	85	0.75	370
SWI1210FT1R8□-□□	1.8 @ 7.96MHz	J, K	30 @ 7.96MHz	80	0.80	350
SWI1210FT2R2□-□□	2.2 @ 7.96MHz	J, K	30 @ 7.96MHz	75	0.90	320
SWI1210FT2R7□-□□	2.7 @ 7.96MHz	J, K	30 @ 7.96MHz	70	1.10	290
SWI1210FT3R3□-□□	3.3 @ 7.96MHz	J, K	30 @ 7.96MHz	60	1.40	260
SWI1210FT3R9□-□□	3.9 @ 7.96MHz	J, K	30 @ 7.96MHz	55	1.70	250
SWI1210FT4R7□-□□	4.7 @ 7.96MHz	J, K	30 @ 7.96MHz	50	2.30	220
SWI1210FT5R6□-□□	5.6 @ 7.96MHz	J, K	20 @ 7.96MHz	47	1.60	200
SWI1210FT6R8□-□□	6.8 @ 7.96MHz	J, K	20 @ 7.96MHz	43	2.20	180
SWI1210FT8R2□-□□	8.2 @ 7.96MHz	J, K	20 @ 7.96MHz	40	2.40	170
SWI1210FT100□-□□	10.0 @ 2.52MHz	J, K	15 @ 2.52MHz	36	3.28	150
SWI1210FT120□-□□	12.0 @ 2.52MHz	J, K	15 @ 2.52MHz	33	3.40	140
SWI1210FT150□-□□	15.0 @ 2.52MHz	J, K	15 @ 2.52MHz	30	3.90	125
SWI1210FT180□-□□	18.0 @ 2.52MHz	J, K	15 @ 2.52MHz	27	4.20	110
SWI1210FT220□-□□	22.0 @ 2.52MHz	J, K	15 @ 2.52MHz	25	6.00	90
SWI1210FT270□-□□	27.0 @ 2.52MHz	J, K	15 @ 2.52MHz	20	6.80	80
SWI1210FT330□-□□	33.0 @ 2.52MHz	J, K	15 @ 2.52MHz	17	7.50	70
SWI1210FT390□-□□	39.0 @ 2.52MHz	J, K	15 @ 2.52MHz	16	8.00	65
SWI1210FT470□-□□	47.0 @ 2.52MHz	J, K	15 @ 2.52MHz	15	8.50	60

Tolerance: J=±5% K=±10%

1. Inductance is measured in HP-4285A RF LCR meter with HP-16193 fixture.
2. Q is measured in HP-4285A RF LCR meter with HP-16193 fixture.

3. SRF is measured in ENA E5071B network analyzer or equivalent.

4. RDC is measured in HP-4338B milliohm meter or equivalent.

5. For 15°C Rise.

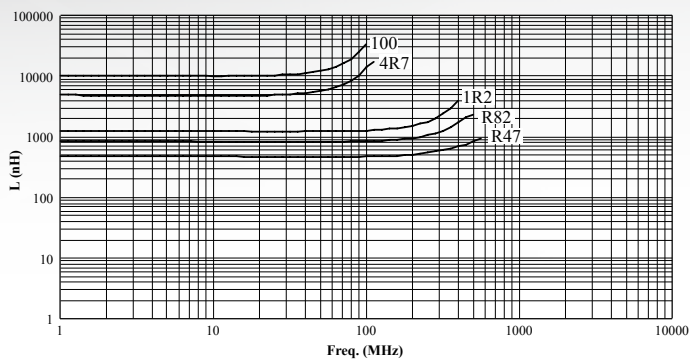
Unit weight = 0.045g (for ref.)

SWI0805/1008/1210-FT Series

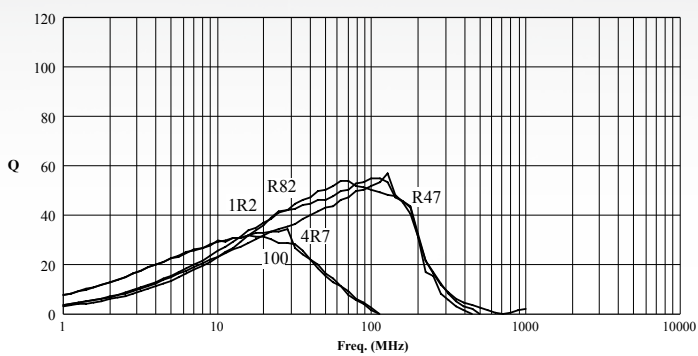
CURVE

■ SWI0805-FT Series

L vs Freq Plot

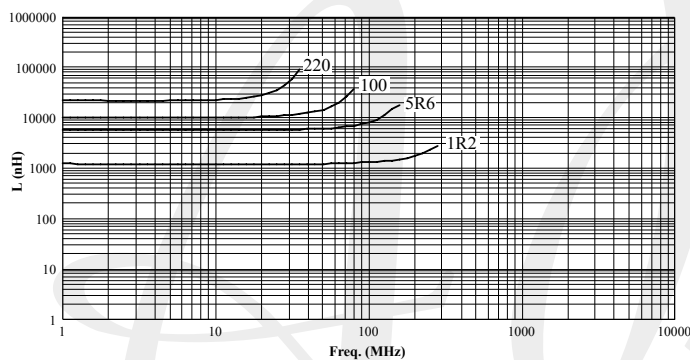


Q vs Freq Plot

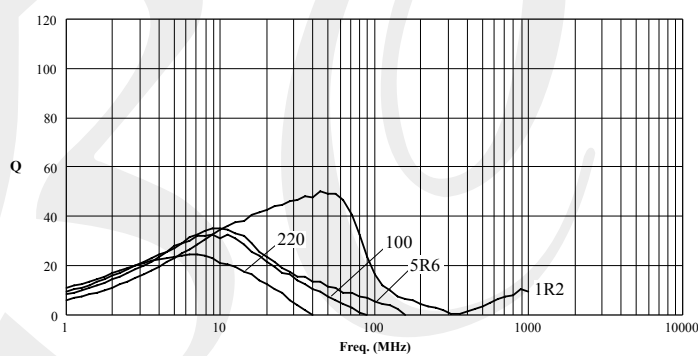


■ SWI1008-FT Series

L vs Freq Plot

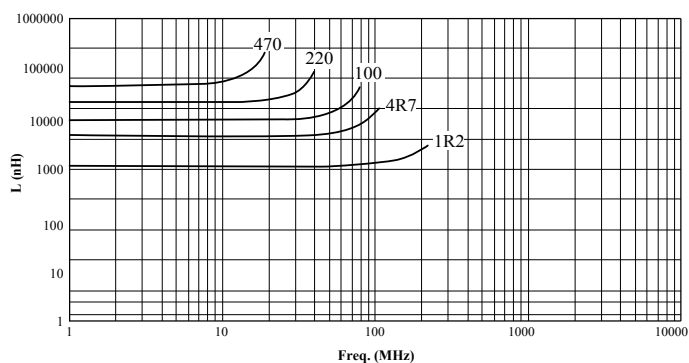


Q vs Freq Plot

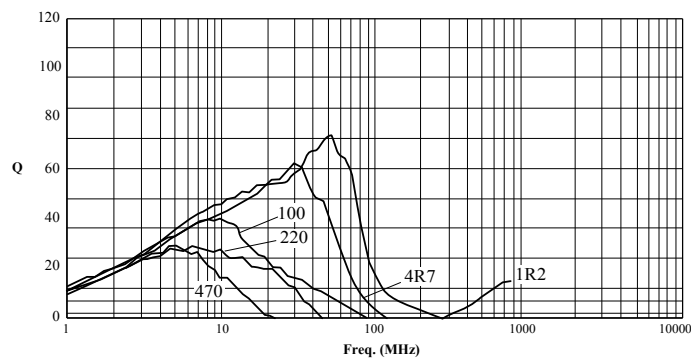


■ SWI1210-FT Series

L vs Freq Plot

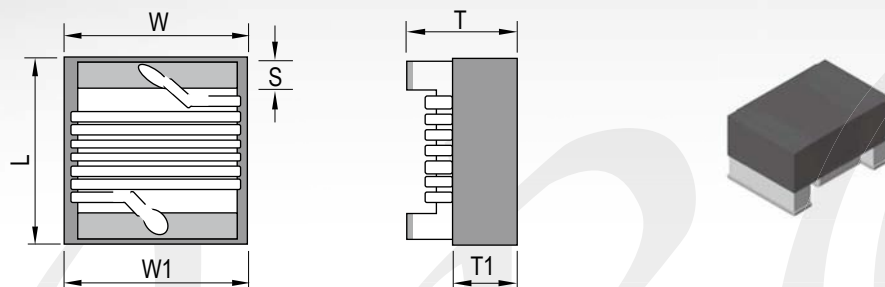


Q vs Freq Plot



SWI0402/0603-HP Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	L	W	T	S	W1	T1
SWI0402-HP	1.00±0.10	0.55±0.10	0.50±0.10	0.20±0.10	0.50 ref.	0.20 ref.
SWI0603-HP	1.80 max.	1.12 max.	1.02 max.	0.36±0.10	0.76 ref.	0.50 ref.

DESCRIPTION

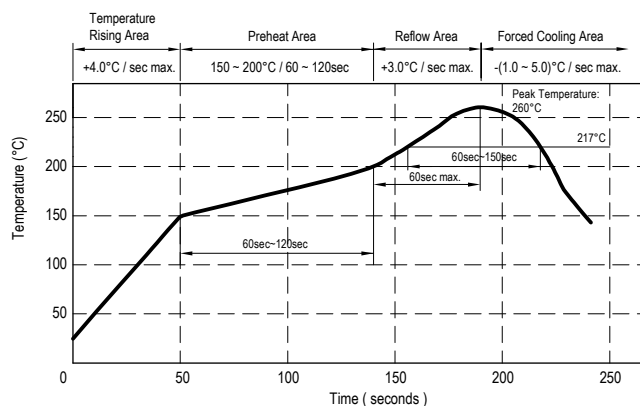
- Wire wound type inductor.
- Ceramic core with gold or tin plating terminals
- Comply with RoHS' requirement
- Product weight: 0.0008 (0402) / 0.0037 (0603)g (ref.)

FEATURES & APPLICATION

- Wire wound on ceramic body with Au or Sn terminal & resin potting package
- Recommended for reflow soldering PCB assembly.
- Excellent inductance vs temperature coefficient & High self resonant frequency up to GHz, especially for high frequency application such as RF transceiver & wireless communication.

GENERAL SPECIFICATION

- Storage condition:
Temp.: -10 ~ +40°C
Humidity: 30% to 70% relative humidity
- Operating temp.: -40°C to +125°C
- Recommended IR reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



SWI0402/0603-HP Series

ELECTRICAL CHARACTERISTICS

■ SWI0402-HP Series

DWG. No.	Inductance ¹ (nH)	Tolerance	Q min.	SRF ² (MHz) min.	RDC ³ (Ω) max.	IDC ⁴ (mA) max.
SWI0402HP2N0□-□□	2.0 @ 250MHz	B, S	22 @ 250MHz	8500	0.038	2100
SWI0402HP2N2□-□□	2.2 @ 250MHz	B, S	22 @ 250MHz	8500	0.038	2100
SWI0402HP2N7□-□□	2.7 @ 250MHz	B, S	22 @ 250MHz	8500	0.056	1500
SWI0402HP3N3□-□□	3.3 @ 250MHz	B, J, K	23 @ 250MHz	8500	0.045	1700
SWI0402HP3N6□-□□	3.6 @ 250MHz	B, J, K	23 @ 250MHz	8500	0.045	1700
SWI0402HP3N9□-□□	3.9 @ 250MHz	B, J, K	23 @ 250MHz	8500	0.045	1700
SWI0402HP4N3□-□□	4.3 @ 250MHz	B, J, K	22 @ 250MHz	7150	0.055	1500
SWI0402HP4N7□-□□	4.7 @ 250MHz	B, J, K	20 @ 250MHz	6850	0.075	1400
SWI0402HP5N1□-□□	5.1 @ 250MHz	B, J, K	23 @ 250MHz	6800	0.085	1300
SWI0402HP5N6□-□□	5.6 @ 250MHz	B, J, K	23 @ 250MHz	6500	0.055	1500
SWI0402HP6N2□-□□	6.2 @ 250MHz	B, J, K	25 @ 250MHz	5800	0.065	1400
SWI0402HP6N8□-□□	6.8 @ 250MHz	B, J, K	25 @ 250MHz	5800	0.065	1400
SWI0402HP7N5□-□□	7.5 @ 250MHz	B, J, K	25 @ 250MHz	5400	0.080	1400
SWI0402HP8N2□-□□	8.2 @ 250MHz	B, J, K	25 @ 250MHz	5400	0.085	1300
SWI0402HP8N7□-□□	8.7 @ 250MHz	B, J, K	25 @ 250MHz	5000	0.085	1300
SWI0402HP9N0□-□□	9.0 @ 250MHz	B, J, K	25 @ 250MHz	5000	0.085	1300
SWI0402HP9N5□-□□	9.5 @ 250MHz	B, J, K	25 @ 250MHz	4700	0.095	1200
SWI0402HP10N□-□□	10.0 @ 250MHz	G, J, K	25 @ 250MHz	4700	0.085	1300
SWI0402HP11N□-□□	11.0 @ 250MHz	G, J, K	25 @ 250MHz	4700	0.090	1300
SWI0402HP12N□-□□	12.0 @ 250MHz	G, J, K	26 @ 250MHz	4400	0.090	1100
SWI0402HP13N□-□□	13.0 @ 250MHz	G, J, K	25 @ 250MHz	4200	0.140	900
SWI0402HP15N□-□□	15.0 @ 250MHz	G, J, K	26 @ 250MHz	3900	0.130	1000
SWI0402HP16N□-□□	16.0 @ 250MHz	G, J, K	26 @ 250MHz	3700	0.130	850
SWI0402HP18N□-□□	18.0 @ 250MHz	G, J, K	26 @ 250MHz	3550	0.140	850
SWI0402HP19N□-□□	19.0 @ 250MHz	G, J, K	26 @ 250MHz	3500	0.145	850
SWI0402HP20N□-□□	20.0 @ 250MHz	G, J, K	26 @ 250MHz	3500	0.155	800
SWI0402HP21N□-□□	21.0 @ 250MHz	G, J, K	26 @ 250MHz	3300	0.160	800
SWI0402HP22N□-□□	22.0 @ 250MHz	G, J, K	26 @ 250MHz	3300	0.160	800
SWI0402HP23N□-□□	23.0 @ 250MHz	G, J, K	26 @ 250MHz	3300	0.190	700
SWI0402HP24N□-□□	24.0 @ 250MHz	G, J, K	26 @ 250MHz	3150	0.180	650
SWI0402HP25N□-□□	25.0 @ 250MHz	G, J, K	25 @ 250MHz	3150	0.180	650
SWI0402HP26N□-□□	26.0 @ 250MHz	G, J, K	25 @ 250MHz	3150	0.170	700
SWI0402HP27N□-□□	27.0 @ 250MHz	G, J, K	26 @ 250MHz	3200	0.220	600
SWI0402HP30N□-□□	30.0 @ 250MHz	G, J, K	25 @ 250MHz	2900	0.275	500
SWI0402HP33N□-□□	33.0 @ 250MHz	G, J, K	25 @ 250MHz	2800	0.320	490
SWI0402HP36N□-□□	36.0 @ 250MHz	G, J, K	26 @ 250MHz	2800	0.360	480
SWI0402HP37N□-□□	37.0 @ 250MHz	G, J, K	25 @ 250MHz	2700	0.430	470
SWI0402HP39N□-□□	39.0 @ 250MHz	G, J, K	25 @ 250MHz	2600	0.430	450
SWI0402HP40N□-□□	40.0 @ 250MHz	G, J, K	26 @ 250MHz	2600	0.430	450
SWI0402HP43N□-□□	43.0 @ 250MHz	G, J, K	26 @ 250MHz	2500	0.500	450
SWI0402HP47N□-□□	47.0 @ 200MHz	G, J, K	22 @ 200MHz	2400	0.550	420
SWI0402HP51N□-□□	51.0 @ 200MHz	J, K	22 @ 200MHz	2300	0.750	360
SWI0402HP56N□-□□	56.0 @ 200MHz	J, K	22 @ 200MHz	2070	0.850	330
SWI0402HP68N□-□□	68.0 @ 200MHz	J, K	22 @ 200MHz	1840	0.950	320

Tolerance: B=±0.2nH S=±0.3nH G=±2% J=±5% K=±10%

- Inductance is measured in HP-4287A RF LCR meter with HP-16193 fixture.
- SRF is measured in ENA E5071B network analyzer or equivalent.
- RDC is measured in HP-4338B milliohm meter or equivalent.

4. For 25°C Rise.

Unit weight = 0.0008g (for ref.)

Without marking on the top surface of the product.

SWI0402/0603-HP Series

■ SWI0603-HP Series

DWG. No.	Inductance ¹ (nH)	Tolerance	Q ² min.	SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	IDC ⁵ (mA) max.
SWI0603HP1N7□-□□	1.7 @ 250MHz	B, S	24 @ 250MHz	8500	0.033	2100
SWI0603HP2N2□-□□	2.2 @ 250MHz	B, S	13 @ 250MHz	7000	0.150	900
SWI0603HP3N3□-□□	3.3 @ 250MHz	B, S	35 @ 250MHz	6900	0.035	1700
SWI0603HP3N6□-□□	3.6 @ 250MHz	B, S	35 @ 250MHz	6900	0.035	1700
SWI0603HP3N9□-□□	3.9 @ 250MHz	B, S	30 @ 250MHz	6900	0.039	1600
SWI0603HP4N3□-□□	4.3 @ 250MHz	B, S	30 @ 250MHz	6000	0.045	1500
SWI0603HP4N7□-□□	4.7 @ 250MHz	B, S	22 @ 250MHz	5800	0.090	1100
SWI0603HP5N1□-□□	5.1 @ 250MHz	B, J, K	20 @ 250MHz	5700	0.108	1000
SWI0603HP6N2□-□□	6.2 @ 250MHz	B, J, K	35 @ 250MHz	5800	0.050	1400
SWI0603HP6N8□-□□	6.8 @ 250MHz	B, J, K	35 @ 250MHz	5800	0.050	1400
SWI0603HP7N2□-□□	7.2 @ 250MHz	B, J, K	35 @ 250MHz	4800	0.052	1400
SWI0603HP7N5□-□□	7.5 @ 250MHz	B, J, K	35 @ 250MHz	4800	0.070	1300
SWI0603HP8N2□-□□	8.2 @ 250MHz	B, J, K	35 @ 250MHz	4300	0.054	1400
SWI0603HP8N7□-□□	8.7 @ 250MHz	B, J, K	30 @ 250MHz	4600	0.100	1000
SWI0603HP9N1□-□□	9.1 @ 250MHz	J, K	28 @ 250MHz	4300	0.108	1000
SWI0603HP9N5□-□□	9.5 @ 250MHz	J, K	35 @ 250MHz	5000	0.060	1350
SWI0603HP10N□-□□	10.0 @ 250MHz	G, J, K	35 @ 250MHz	4800	0.060	1350
SWI0603HP11N□-□□	11.0 @ 250MHz	G, J, K	35 @ 250MHz	4200	0.060	1350
SWI0603HP12N□-□□	12.0 @ 250MHz	G, J, K	35 @ 250MHz	4000	0.078	1200
SWI0603HP15N□-□□	15.0 @ 250MHz	G, J, K	38 @ 250MHz	4000	0.085	1100
SWI0603HP16N□-□□	16.0 @ 250MHz	G, J, K	38 @ 250MHz	3300	0.085	1100
SWI0603HP18N□-□□	18.0 @ 250MHz	G, J, K	38 @ 250MHz	3100	0.078	1200
SWI0603HP22N□-□□	22.0 @ 250MHz	G, J, K	40 @ 250MHz	3000	0.120	950
SWI0603HP23N□-□□	23.0 @ 250MHz	G, J, K	40 @ 250MHz	2850	0.120	950
SWI0603HP24N□-□□	24.0 @ 250MHz	G, J, K	40 @ 250MHz	2650	0.080	1100
SWI0603HP27N□-□□	27.0 @ 250MHz	J, K	40 @ 250MHz	2800	0.125	950
SWI0603HP30N□-□□	30.0 @ 250MHz	G, J, K	40 @ 250MHz	2400	0.130	920
SWI0603HP33N□-□□	33.0 @ 250MHz	G, J, K	40 @ 250MHz	2300	0.170	680
SWI0603HP36N□-□□	36.0 @ 250MHz	G, J, K	40 @ 250MHz	2300	0.150	750
SWI0603HP39N□-□□	39.0 @ 250MHz	G, J, K	40 @ 250MHz	2200	0.180	680
SWI0603HP43N□-□□	43.0 @ 250MHz	G, J, K	40 @ 250MHz	2100	0.170	810
SWI0603HP47N□-□□	47.0 @ 200MHz	G, J, K	38 @ 200MHz	2000	0.200	680
SWI0603HP51N□-□□	51.0 @ 200MHz	G, J, K	38 @ 200MHz	1900	0.250	660
SWI0603HP56N□-□□	56.0 @ 200MHz	G, J, K	38 @ 200MHz	1900	0.230	700
SWI0603HP68N□-□□	68.0 @ 200MHz	G, J, K	38 @ 200MHz	1700	0.280	650
SWI0603HP72N□-□□	72.0 @ 150MHz	G, J, K	34 @ 150MHz	1700	0.350	580
SWI0603HP75N□-□□	75.0 @ 150MHz	G, J, K	34 @ 150MHz	1700	0.420	550
SWI0603HP82N□-□□	82.0 @ 150MHz	G, J, K	34 @ 150MHz	1600	0.460	510
SWI0603HP91N□-□□	91.0 @ 150MHz	G, J, K	34 @ 150MHz	1500	0.420	550
SWI0603HPR10□-□□	100.0 @ 150MHz	G, J, K	34 @ 150MHz	1400	0.540	470
SWI0603HPR11□-□□	110.0 @ 150MHz	G, J, K	33 @ 150MHz	1350	0.540	470
SWI0603HPR12□-□□	120.0 @ 150MHz	G, J, K	33 @ 150MHz	1300	0.650	420
SWI0603HPR15□-□□	150.0 @ 150MHz	G, J, K	30 @ 150MHz	1150	0.820	390
SWI0603HPR18□-□□	180.0 @ 100MHz	G, J, K	28 @ 100MHz	1050	1.200	320
SWI0603HPR20□-□□	200.0 @ 100MHz	G, J, K	28 @ 100MHz	1000	1.300	310
SWI0603HPR21□-□□	210.0 @ 100MHz	G, J, K	28 @ 100MHz	1000	1.900	280
SWI0603HPR22□-□□	220.0 @ 100MHz	G, J, K	28 @ 100MHz	950	1.900	280
SWI0603HPR25□-□□	250.0 @ 100MHz	G, J, K	28 @ 100MHz	900	2.000	260
SWI0603HPR27□-□□	270.0 @ 100MHz	G, J, K	28 @ 100MHz	900	2.200	260
SWI0603HPR30□-□□	300.0 @ 100MHz	G, J, K	28 @ 100MHz	780	2.700	220
SWI0603HPR33□-□□	330.0 @ 100MHz	G, J, K	28 @ 100MHz	750	2.900	200
SWI0603HPR36□-□□	360.0 @ 100MHz	G, J, K	28 @ 100MHz	720	3.800	180
SWI0603HPR39□-□□	390.0 @ 100MHz	G, J, K	28 @ 100MHz	700	3.800	180

Tolerance: B=±0.2nH S=±0.3nH G=±2% J=±5% K=±10%

1. Inductance is measured in HP-4287A RF LCR meter with HP-16193 fixture.

2. Q is measured in HP-4287A RF LCR meter with HP-16193 fixture.

3. SRF is measured in ENA E5071B network analyzer or equivalent.

4. RDC is measured in HP-4338B milliohm meter or equivalent.

5. For 25°C Rise.

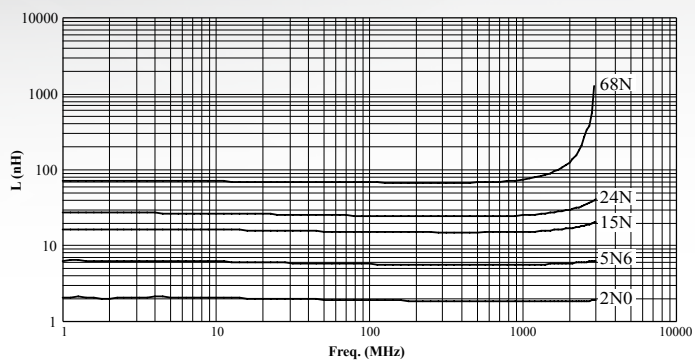
Unit weight = 0.0037g (for ref.)

SWI0402/0603-HP Series

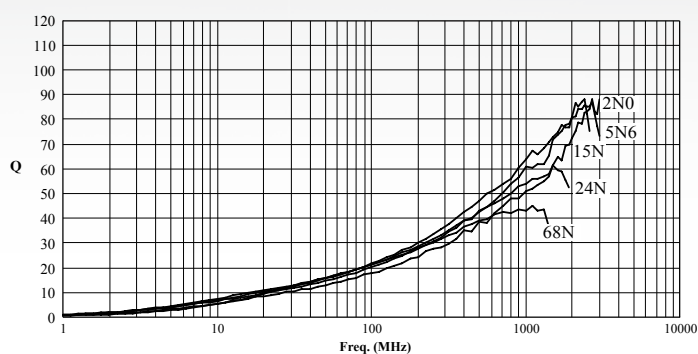
CURVE

■ SWI0402-HP Series

L vs Freq Plot

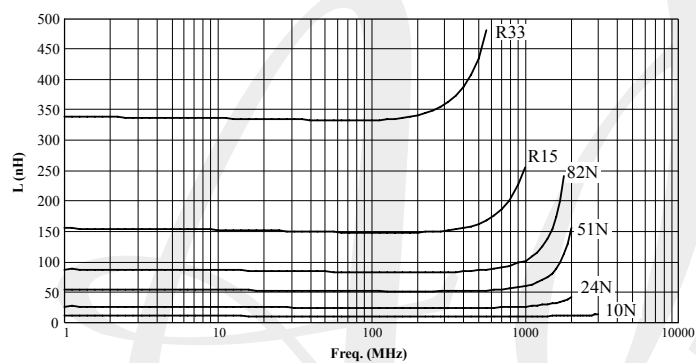


Q vs Freq Plot

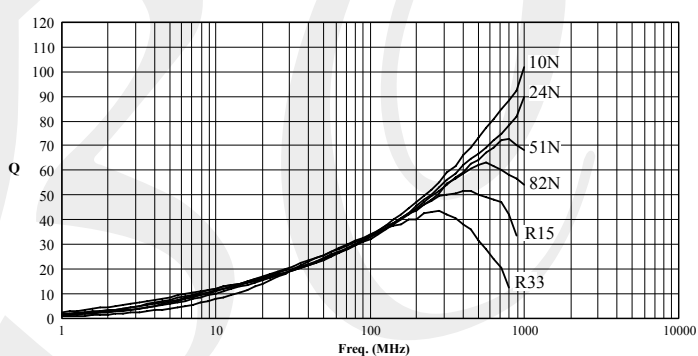


■ SWI0603-HP Series

L vs Freq Plot

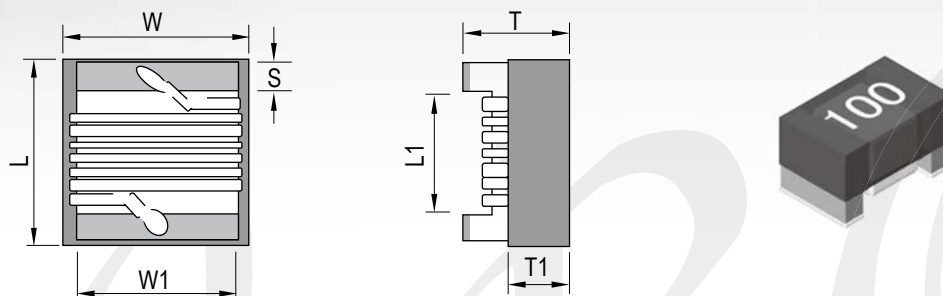


Q vs Freq Plot



HCI0805-FT Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	L	W	T	S	L1	W1	T1
HCI0805-FT	2.30 max.	1.50 max.	1.20 max.	0.50±0.10	1.20 ref.	1.20 ref.	0.60 ref.

DESCRIPTION

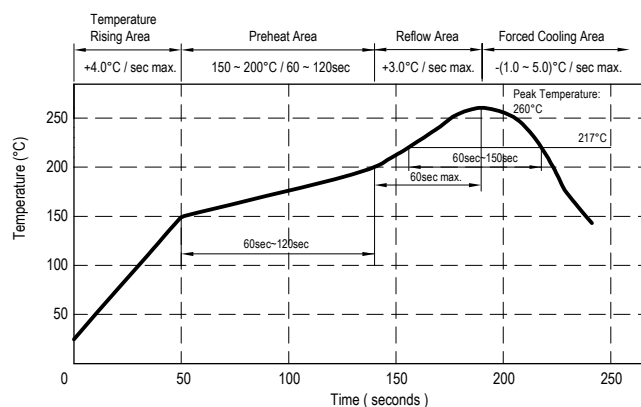
- Wire wound type inductor
- Ferrite core with tin plating terminals
- Comply with RoHS' requirement
- Product weight: 0.0084g (ref.)

FEATURES & APPLICATION

- Wire wound on ferrite body with Sn terminal & resin potting package.
- Recommended for reflow soldering PCB assembly.
- Excellent inductance vs temperature coefficient & High self resonant frequency up to GHz, especially for high frequency application such as RF transceiver & wireless communication.

GENERAL SPECIFICATION

- Storage condition:
Temp.: -10 ~ +40°C
Humidity: 30% to 70% relative humidity
- Operating temp.: -40°C to +85°C
- Recommended IR reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



HCI0805-FT Series

ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance ¹ (μ H)	Tolerance	Q ² min.	SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	Isat ⁵ (mA) max.	IDC ⁶ (mA) max.
HCI0805FTR47□-□□	0.47 @ 100KHz	K, M	10 @ 1MHz	720	0.15	1600	1100
HCI0805FTR56□-□□	0.56 @ 100KHz	K, M	10 @ 1MHz	680	0.17	1450	1050
HCI0805FTR68□-□□	0.68 @ 100KHz	K, M	10 @ 1MHz	600	0.19	1300	1000
HCI0805FTR82□-□□	0.82 @ 100KHz	K, M	10 @ 1MHz	550	0.20	1250	950
HCI0805FT1R0□-□□	1.00 @ 100KHz	K, M	10 @ 1MHz	500	0.30	1000	900
HCI0805FT1R2□-□□	1.20 @ 100KHz	K, M	10 @ 1MHz	350	0.27	1150	900
HCI0805FT1R5□-□□	1.50 @ 100KHz	K, M	10 @ 1MHz	230	0.35	850	700
HCI0805FT1R8□-□□	1.80 @ 100KHz	K, M	10 @ 1MHz	180	0.40	750	650
HCI0805FT2R2□-□□	2.20 @ 100KHz	K, M	10 @ 1MHz	140	0.45	700	580
HCI0805FT2R7□-□□	2.70 @ 100KHz	K, M	10 @ 1MHz	120	0.60	650	550
HCI0805FT3R3□-□□	3.30 @ 100KHz	K, M	10 @ 1MHz	90	0.70	600	430
HCI0805FT3R9□-□□	3.90 @ 100KHz	K, M	10 @ 1MHz	80	0.75	550	420
HCI0805FT4R7□-□□	4.70 @ 100KHz	K, M	10 @ 1MHz	70	0.80	500	400
HCI0805FT5R6□-□□	5.60 @ 100KHz	K, M	10 @ 1MHz	60	1.05	450	380
HCI0805FT6R8□-□□	6.80 @ 100KHz	K, M	10 @ 1MHz	50	1.15	420	370
HCI0805FT8R2□-□□	8.20 @ 100KHz	K, M	10 @ 1MHz	45	1.25	400	360
HCI0805FT100□-□□	10.00 @ 100KHz	K, M	10 @ 1MHz	40	1.50	370	330
HCI0805FT120□-□□	12.00 @ 100KHz	K, M	10 @ 1MHz	35	1.80	320	320
HCI0805FT150□-□□	15.00 @ 100KHz	K, M	10 @ 1MHz	22	1.90	300	300
HCI0805FT180□-□□	18.00 @ 100KHz	K, M	10 @ 1MHz	20	2.30	280	280
HCI0805FT220□-□□	22.00 @ 100KHz	K, M	10 @ 1MHz	18	2.50	250	250
HCI0805FT270□-□□	27.00 @ 100KHz	K, M	10 @ 1MHz	16	3.40	230	230
HCI0805FT330□-□□	33.00 @ 100KHz	K, M	10 @ 1MHz	15	3.80	210	210
HCI0805FT390□-□□	39.00 @ 100KHz	K, M	10 @ 1MHz	12	4.30	180	180
HCI0805FT470□-□□	47.00 @ 100KHz	K, M	10 @ 1MHz	10	4.70	150	150

Tolerance: K=±10% M=±20%

- Inductance is measured in HP-4284A /4285A RF LCR meter with SMD-A fixture.
- Q is measured in HP-4284A / 4285A RF LCR meter with SMD-A fixture.
- SRF is measured in ENA E5071B network analyzer or equivalent.
- RDC is measured in HP-4338B milliohm meter or equivalent.

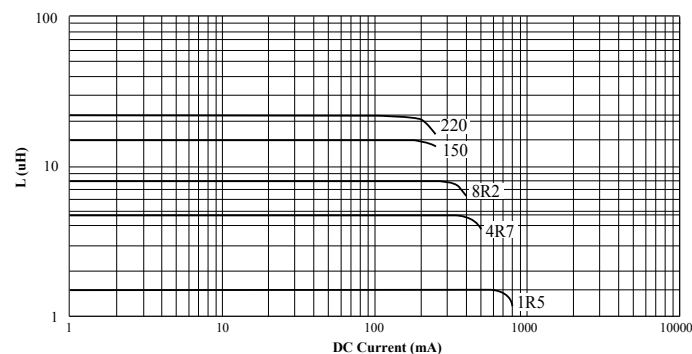
5. Inductance drop 10% from the initial value.

6. For 25°C Rise.

Unit weight = 0.0084g (for ref.)

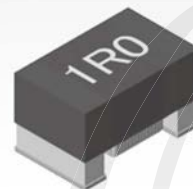
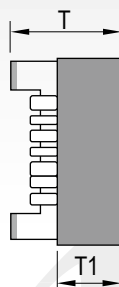
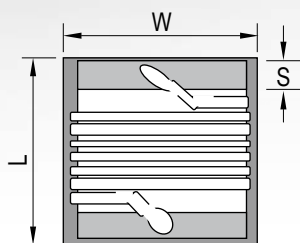
CURVE

L vs IDC Chart



SWI1008CT/FT-KI Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	L	W	T	S	T1
SWI1008CT/FT-KI	2.60±0.20	2.10±0.20	1.70±0.20	0.50±0.10	0.70 ref.

DESCRIPTION

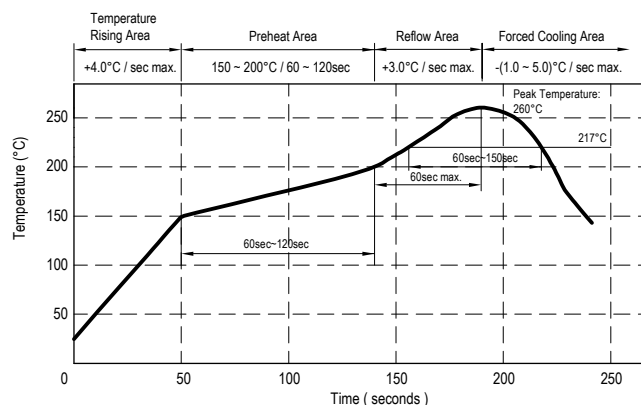
- Wire wound type inductor
- Ceramic/Ferrite core with gold/tin plating terminals
- Comply with RoHS' requirement
- Product weight: 0.025g (ref.)

FEATURES & APPLICATION

- CT type: wire wound on ceramic body with Au terminal & resin potting package
- FT type: wire wound on ferrite body with Sn terminal & resin potting package Recommended for reflow soldering PCB assembly.
- CT type: Excellent inductance vs temperature coefficient & High self resonant frequency up to GHz, especially for high frequency application such as RF transceiver & wireless communication.
- FT type: High Q & excellent inductance vs temperature characteristics available for RF filter & amplifier circuit.

GENERAL SPECIFICATION

- Storage condition:
Temp.: -10 ~ +40°C
Humidity: 30% to 70% relative humidity
- Operating temp.: CT:- 40°C to +125°C
FT: -40°C to +85°C
- Recommended IR reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



SWI1008CT/1008FT-KI Series

ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance ¹ (uH)	Tolerance	Q ² min.	SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	IDC ⁵ (mA) max.
SWI1008CTR47□-KI	0.47 @ 25MHz	J, K	45 @ 100MHz	450	1.18	470
SWI1008CTR56□-KI	0.56 @ 25MHz	J, K	45 @ 100MHz	415	1.33	450
SWI1008CTR68□-KI	0.68 @ 25MHz	J, K	40 @ 100MHz	375	1.20	480
SWI1008CTR75□-KI	0.75 @ 25MHz	J, K	40 @ 100MHz	360	1.50	420
SWI1008CTR82□-KI	0.82 @ 25MHz	J, K	40 @ 100MHz	350	1.60	400
SWI1008CT1R0□-KI	1.00 @ 25MHz	J, K	30 @ 50MHz	180	1.70	370
SWI1008FT1R2□-KI	1.20 @ 7.96MHz	J, K	20 @ 7.96MHz	280	0.50	760
SWI1008FT1R5□-KI	1.50 @ 7.96MHz	J, K	20 @ 7.96MHz	250	0.75	630
SWI1008FT1R8□-KI	1.80 @ 7.96MHz	J, K	20 @ 7.96MHz	200	0.75	630
SWI1008FT2R2□-KI	2.20 @ 7.96MHz	J, K	20 @ 7.96MHz	160	1.10	520
SWI1008FT2R7□-KI	2.70 @ 7.96MHz	J, K	20 @ 7.96MHz	135	1.10	520
SWI1008FT3R3□-KI	3.30 @ 7.96MHz	J, K	20 @ 7.96MHz	120	1.35	460
SWI1008FT3R9□-KI	3.90 @ 7.96MHz	J, K	20 @ 7.96MHz	105	1.50	420
SWI1008FT4R7□-KI	4.70 @ 7.96MHz	J, K	20 @ 7.96MHz	60	1.65	400
SWI1008FT5R6□-KI	5.60 @ 7.96MHz	J, K	20 @ 7.96MHz	80	1.80	370
SWI1008FT6R8□-KI	6.80 @ 7.96MHz	J, K	20 @ 7.96MHz	70	2.00	360
SWI1008FT8R2□-KI	8.20 @ 7.96MHz	J, K	20 @ 7.96MHz	50	2.60	320
SWI1008FT100□-KI	10.00 @ 2.52MHz	J, K	15 @ 2.52MHz	40	2.80	300

Tolerance: J=±5% K=±10%

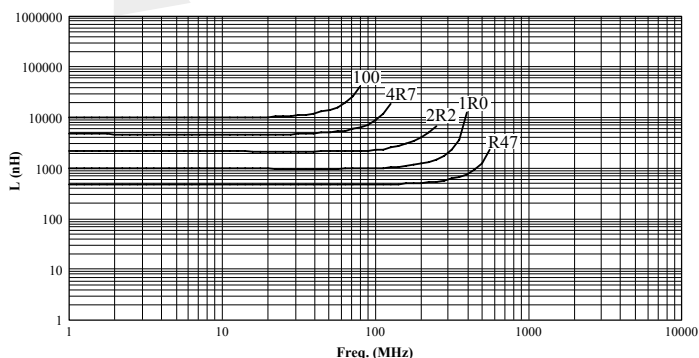
1. Inductance is measured in HP-4287A RF LCR meter with HP-16193 fixture.
2. Q is measured in HP-4287A RF LCR meter with HP-16193 fixture.
3. SRF is measured in ENA E5071B network analyzer or equivalent.

4. RDC is measured in HP-4338B milliohm meter or equivalent.
5. For 15°C Rise.

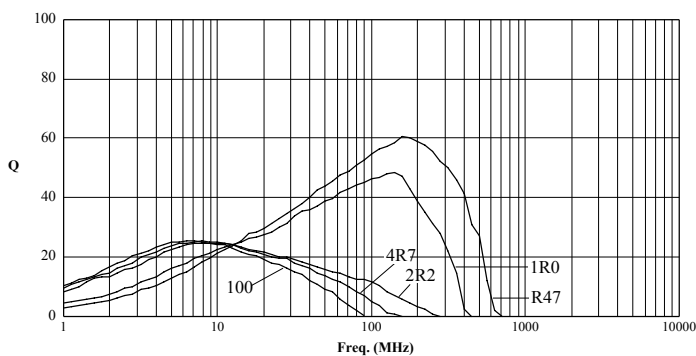
Unit weight = 0.025g (for ref.)

CURVE

L vs Freq Plot

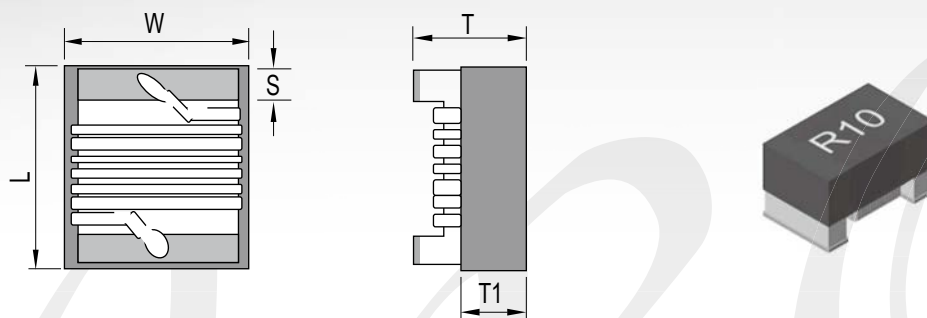


Q vs Freq Plot



SWI1008HQ Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	L	W	T	S	T1
SWI1008HQ	2.60±0.20	2.10±0.20	1.70±0.20	0.50±0.10	0.70 ref.

DESCRIPTION

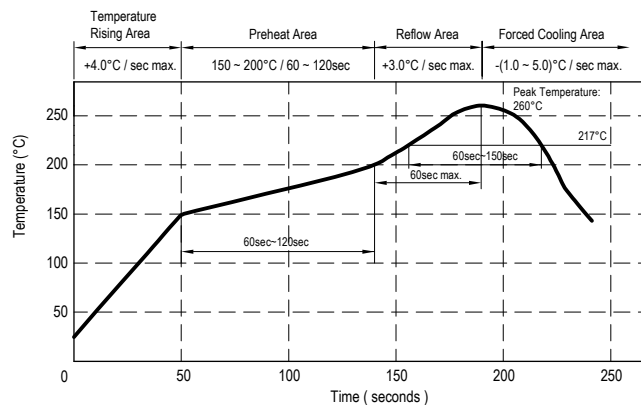
- Wire wound type inductor.
- Ceramic core with gold plating terminals.
- Comply with RoHS' requirement.
- Product weight : 0.025g (ref.)

FEATURES & APPLICATION

- Wire wound on ceramic body with Au terminal & resin potting package.
- Recommended for reflow soldering PCB assembly.
- Excellent inductance vs temperature coefficient & High self resonant frequency up to GHz, especially for high frequency application such as RF transceiver & wireless communication.

GENERAL SPECIFICATION

- Storage condition:
Temp.: -10 ~ +40°C
Humidity: 30% to 70% relative humidity
- Operating temp.: -40°C to +125°C
- Recommended IR reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



SWI1008HQ Series

ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance ¹ (nH)	Tolerance	Q ² min.	SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	IDC ⁵ (mA) max.
SWI1008HQ3N0□-□□	3.0 @ 50MHz	J, K	70 @ 1500MHz	8100	0.04	1600
SWI1008HQ7N8□-□□	7.8 @ 50MHz	J, K	75 @ 1500MHz	3800	0.05	1600
SWI1008HQ10N□-□□	10.0 @ 50MHz	J, K	60 @ 500MHz	3600	0.08	1300
SWI1008HQ12N□-□□	12.0 @ 50MHz	G, J, K	70 @ 500MHz	2800	0.06	1500
SWI1008HQ18N□-□□	18.0 @ 50MHz	G, J, K	62 @ 350MHz	2700	0.08	1400
SWI1008HQ22N□-□□	22.0 @ 50MHz	G, J, K	62 @ 350MHz	2050	0.07	1400
SWI1008HQ33N□-□□	33.0 @ 50MHz	G, J, K	75 @ 350MHz	1700	0.09	1300
SWI1008HQ39N□-□□	39.0 @ 50MHz	G, J, K	75 @ 350MHz	1300	0.09	1300
SWI1008HQ47N□-□□	47.0 @ 50MHz	G, J, K	75 @ 350MHz	1450	0.12	1200
SWI1008HQ56N□-□□	56.0 @ 50MHz	G, J, K	75 @ 350MHz	1230	0.12	1200
SWI1008HQ68N□-□□	68.0 @ 50MHz	G, J, K	80 @ 350MHz	1150	0.13	1000
SWI1008HQ82N□-□□	82.0 @ 50MHz	G, J, K	80 @ 350MHz	1060	0.16	1000
SWI1008HQR10□-□□	100.0 @ 50MHz	G, J, K	62 @ 350MHz	820	0.16	1000

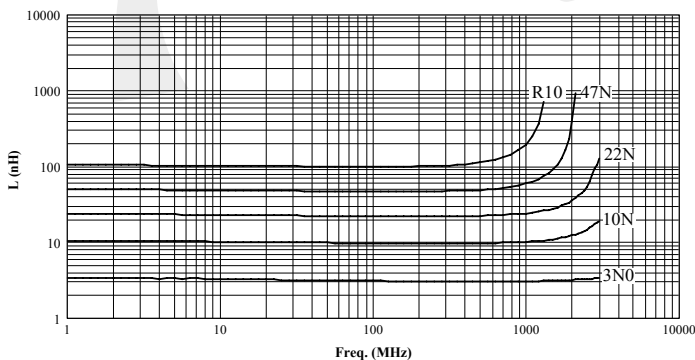
Tolerance: G=±2% J=±5% K=±10%

- Inductance is measured in HP-4287A RF LCR meter with HP-16193 fixture.
- Q is measured in HP-4287A RF LCR meter with HP-16193 fixture.
- SRF is measured in ENA E5071B network analyzer or equivalent.

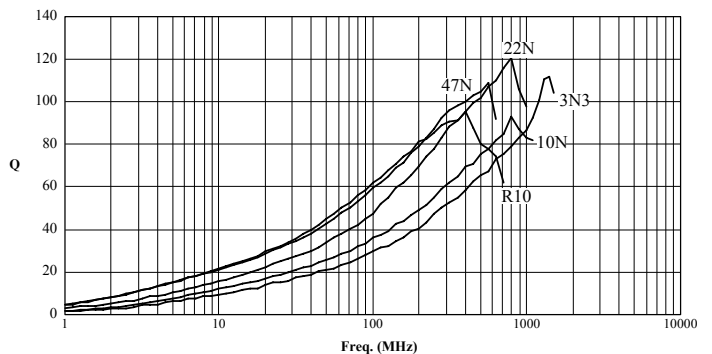
- RDC is measured in HP-4338B milliohm meter or equivalent.
 - For 15°C Rise.
- Unit weight = 0.025g (for ref.)

CURVE

L vs Freq Plot

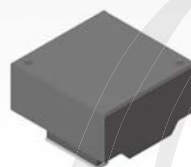
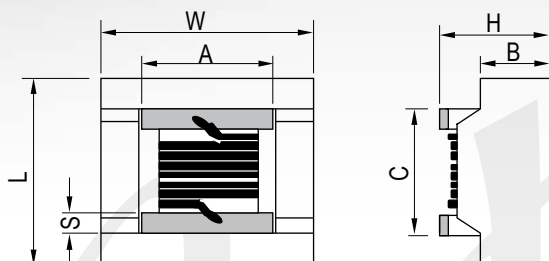


Q vs Freq Plot



SWI1008-PT Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	L	W	H	S	A	B	C
SWI1008-PT	3.60±0.20	3.60±0.20	2.50±0.20	0.50±0.10	2.00±0.10	1.60±0.20	2.50±0.10

DESCRIPTION

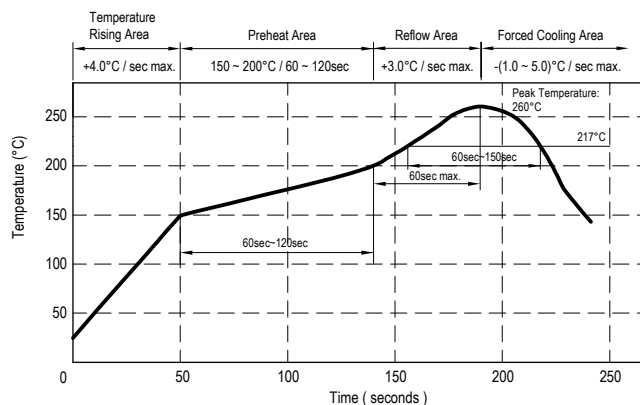
- Wire wound type inductor with magnetic shield
- Ferrite core and ferrite cover
- Comply with RoHS' requirement
- Product weight: 0.10g (ref.)

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Recommended for reflow soldering PCB assembly.
- Excellent inductance vs temperature coefficient & High self resonant frequency up to GHz, especially for high frequency application such as RF transceiver & wireless communication.

GENERAL SPECIFICATION

- Storage condition:
Temp.: -10 ~ +40°C
Humidity: 30% to 70% relative humidity
- Operating temp.: -40°C to +85°C
- Recommended IR reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



SWI1008-PT Series

ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance ¹ (μ H)	Tolerance	Q ² min.	SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	IDC ⁵ (mA) max.
SWI1008PT1R0□-□□	1.0 @ 100KHZ	M	35 @ 1MHZ	344.0	0.05	1000
SWI1008PT1R5□-□□	1.5 @ 100KHZ	M	35 @ 1MHZ	260.0	0.06	800
SWI1008PT1R8□-□□	1.8 @ 100KHZ	M	35 @ 1MHZ	225.0	0.09	680
SWI1008PT2R7□-□□	2.7 @ 100KHZ	M	38 @ 1MHZ	185.0	0.14	650
SWI1008PT3R9□-□□	3.9 @ 100KHZ	M	38 @ 1MHZ	175.0	0.26	650
SWI1008PT4R7□-□□	4.7 @ 100KHZ	M	38 @ 1MHZ	160.0	0.35	500
SWI1008PT5R6□-□□	5.6 @ 100KHZ	M	38 @ 1MHZ	150.0	0.40	450
SWI1008PT6R8□-□□	6.8 @ 100KHZ	M	38 @ 1MHZ	120.0	0.60	400
SWI1008PT100□-□□	10.0 @ 100KHZ	M	38 @ 1MHZ	100.0	0.95	250
SWI1008PT150□-□□	15.0 @ 100KHZ	M	38 @ 1MHZ	35.0	1.15	220
SWI1008PT220□-□□	22.0 @ 100KHZ	M	40 @ 1MHZ	26.0	1.40	180
SWI1008PT330□-□□	33.0 @ 100KHZ	M	45 @ 1MHZ	20.0	1.60	150
SWI1008PT390□-□□	39.0 @ 100KHZ	M	45 @ 1MHZ	14.0	1.85	130
SWI1008PT470□-□□	47.0 @ 100KHZ	M	45 @ 1MHZ	14.0	2.50	110
SWI1008PT680□-□□	68.0 @ 100KHZ	M	45 @ 1MHZ	12.0	3.80	100
SWI1008PT820□-□□	82.0 @ 100KHZ	M	45 @ 1MHZ	9.0	4.20	100
SWI1008PT101□-□□	100.0 @ 100KHZ	M	45 @ 1MHZ	7.0	5.80	80
SWI1008PT121□-□□	120.0 @ 100KHZ	M	45 @ 1MHZ	6.0	6.20	60
SWI1008PT151□-□□	150.0 @ 100KHZ	M	40 @ 1MHZ	5.6	7.50	50
SWI1008PT221□-□□	220.0 @ 100KHZ	M	40 @ 1MHZ	4.0	10.00	50
SWI1008PT331□-□□	330.0 @ 100KHZ	M	40 @ 1MHZ	3.8	11.50	50
SWI1008PT471□-□□	470.0 @ 100KHZ	M	35 @ 1MHZ	2.0	16.50	50
SWI1008PT561□-□□	560.0 @ 100KHZ	M	35 @ 1MHZ	2.0	18.00	30
SWI1008PT681□-□□	680.0 @ 100KHZ	M	30 @ 1MHZ	1.8	24.00	30
SWI1008PT821□-□□	820.0 @ 100KHZ	M	30 @ 1MHZ	1.5	26.00	30
SWI1008PT102□-□□	1000.0 @ 100KHZ	M	30 @ 1MHZ	1.3	30.00	30

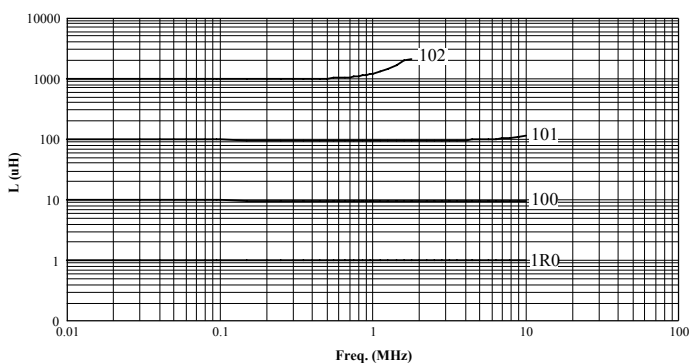
Tolerance: M=±20%

- Inductance is measured in HP-4285A Precision LCR meter RF LCR meter with SMD-A fixture.
- Q is measured in HP-4285A Precision LCR meter, HP-4285A RF LCR meter with SMD-A fixture. With 0.1Vrms

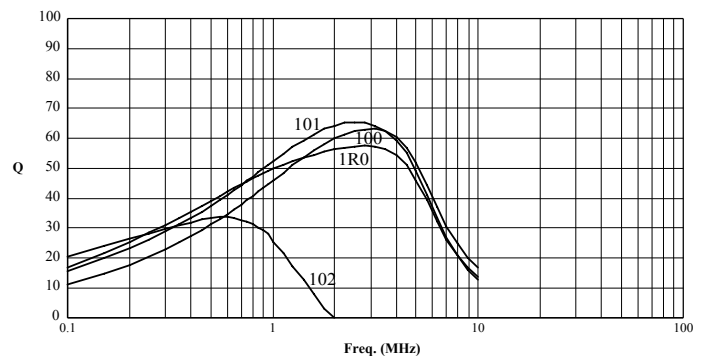
- SRF is measured in HP-8753E RF network analyzer with HP-16193 fixture or equivalent.
- RDC is measured in HP-4338B milliohm meter or equivalent.
- For 15°C Rise.

CURVE

L vs Freq Plot

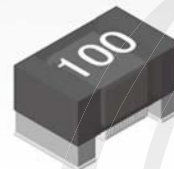
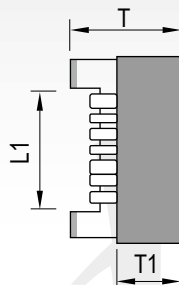
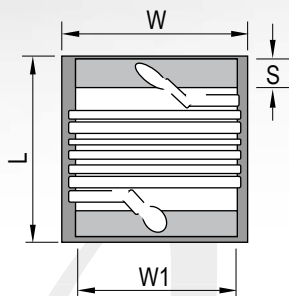


Q vs Freq Plot



LPI0603/0805/1210-FT Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	L	W	T	S	L1	W1	T1
LPI0603-FT	1.60±0.20	1.05±0.20	1.05±0.10	0.35±0.10	0.80 ref.	0.95 ref.	0.50 ref.
LPI0805-FT	2.00±0.20	1.25±0.20	1.20 max.	0.40±0.10	1.20 ref.	1.20 ref.	0.60 ref.
LPI1210-FT	3.20±0.20	2.50±0.20	1.20 max.	0.50±0.10	2.20 ref.	2.40 ref.	0.80 ref.

DESCRIPTION

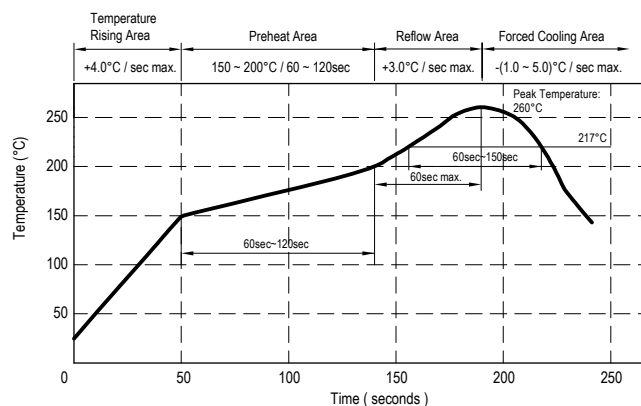
- Wire wound type inductor
- Ferrite core with tin plating terminals
- Comply with RoHS' requirement
- Product weight: 0.0049 (0603) / 0.0084 (0805) / 0.045 (1210)g (ref.)

FEATURES & APPLICATION

- Wire wound on ferrite body with Sn terminal & resin potting package.
- Recommended for reflow soldering PCB assembly.
- High Q & excellent inductance vs temperature characteristics available for RF filter & amplifier circuit.

GENERAL SPECIFICATION

- Storage condition:
Temp.: -10 ~ +40°C
Humidity: 30% to 70% relative humidity
- Operating temp.: -40°C to +85°C
- Recommended IR reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



LPI0603/0805/1210-FT Series

ELECTRICAL CHARACTERISTICS

■ LPI0603-FT Series

DWG. No.	Inductance ¹ (uH)	Tolerance	Q ² min.	SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	IDC ⁵ (mA) max.
LPI0603FT1R0□-□□	1.0 @ 100kHz	K, M	6 @ 1MHz	400	0.60	680
LPI0603FT1R2□-□□	1.2 @ 100kHz	K, M	6 @ 1MHz	300	0.65	650
LPI0603FT1R5□-□□	1.5 @ 100kHz	K, M	6 @ 1MHz	150	0.90	520
LPI0603FT1R8□-□□	1.8 @ 100kHz	K, M	6 @ 1MHz	120	0.95	480
LPI0603FT2R2□-□□	2.2 @ 100kHz	K, M	7 @ 1MHz	80	1.00	470
LPI0603FT2R7□-□□	2.7 @ 100kHz	K, M	7 @ 1MHz	80	1.10	460
LPI0603FT3R3□-□□	3.3 @ 100kHz	K, M	7 @ 1MHz	70	1.25	450
LPI0603FT3R9□-□□	3.9 @ 100kHz	K, M	7 @ 1MHz	65	1.35	430
LPI0603FT4R7□-□□	4.7 @ 100kHz	K, M	8 @ 1MHz	60	1.50	420
LPI0603FT5R6□-□□	5.6 @ 100kHz	K, M	8 @ 1MHz	55	2.10	270
LPI0603FT6R8□-□□	6.8 @ 100kHz	K, M	8 @ 1MHz	50	2.30	250
LPI0603FT8R2□-□□	8.2 @ 100kHz	K, M	8 @ 1MHz	28	2.50	230
LPI0603FT100□-□□	10.0 @ 100kHz	K, M	10 @ 1MHz	25	2.90	220
LPI0603FT120□-□□	12.0 @ 100kHz	K, M	10 @ 1MHz	20	3.10	190

Tolerance: K=±10% M=±20%

- Inductance is measured in HP-4284A /4285A RF LCR meter with SMD-A fixture.
- Q is measured in HP-4284A / 4285A LCR meter with SMD-A fixture.
- SRF is measured in ENA E5071B network analyzer or equivalent.

- RDC is measured in HP-4338B milliohm meter or equivalent.
- For 25°C Rise.
- Unit weight = 0.0049g (for ref.)

■ LPI0805-FT Series

DWG. No.	Inductance ¹ (uH)	Tolerance	Q ² min.	SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	Isat ⁵ (mA) max.	IDC ⁶ (mA) max.
LPI0805FT1R0□-□□	1.0 @ 100kHz	K, M	10 @ 1MHz	400	0.35	800	750
LPI0805FT1R2□-□□	1.2 @ 100kHz	K, M	10 @ 1MHz	350	0.40	750	700
LPI0805FT1R5□-□□	1.5 @ 100kHz	K, M	10 @ 1MHz	300	0.45	720	680
LPI0805FT1R8□-□□	1.8 @ 100kHz	K, M	10 @ 1MHz	250	0.60	680	650
LPI0805FT2R2□-□□	2.2 @ 100kHz	K, M	10 @ 1MHz	180	0.65	650	630
LPI0805FT2R7□-□□	2.7 @ 100kHz	K, M	10 @ 1MHz	120	0.75	630	600
LPI0805FT3R3□-□□	3.3 @ 100kHz	K, M	10 @ 1MHz	90	0.85	600	570
LPI0805FT3R9□-□□	3.9 @ 100kHz	K, M	10 @ 1MHz	80	0.90	550	500
LPI0805FT4R7□-□□	4.7 @ 100kHz	K, M	10 @ 1MHz	70	1.10	450	430
LPI0805FT5R6□-□□	5.6 @ 100kHz	K, M	10 @ 1MHz	60	1.25	430	400
LPI0805FT6R8□-□□	6.8 @ 100kHz	K, M	10 @ 1MHz	50	1.35	380	360
LPI0805FT8R2□-□□	8.2 @ 100kHz	K, M	10 @ 1MHz	45	1.50	360	340
LPI0805FT100□-□□	10.0 @ 100kHz	K, M	10 @ 1MHz	40	2.00	340	310
LPI0805FT150□-□□	15.0 @ 100kHz	K, M	10 @ 1MHz	30	2.50	300	180
LPI0805FT180□-□□	18.0 @ 100kHz	K, M	10 @ 1MHz	25	2.90	250	170
LPI0805FT220□-□□	22.0 @ 100kHz	K, M	10 @ 1MHz	20	3.20	200	150

Tolerance: K=±10% M=±20%

- Inductance is measured in HP-4284A /4285A RF LCR meter with SMD-A fixture.
- Q is measured in HP-4284A / 4285A RF LCR meter with SMD-A fixture.
- SRF is measured in ENA E5071B network analyzer or equivalent.
- RDC is measured in HP-4338B milliohm meter or equivalent.

- Inductance drop 10% from the initial value.
- For 25°C Rise.
- Unit weight = 0.0084g (for ref.)

LPI0603/0805/1210-FT Series

LPI

■ LPI1210-FT Series

DWG. No.	Inductance ¹ (μ H)	Tolerance	Q ² min.	SRF ³ (MHz) min.	RDC ⁴ (Ω) max.	Isat ⁵ (mA) max.	IDC ⁶ (mA) max.
LPI1210FT2R2□-□□	2.2 @ 100kHz	K, M	10 @ 1MHz	150	0.50	850	800
LPI1210FT2R7□-□□	2.7 @ 100kHz	K, M	10 @ 1MHz	120	0.60	750	700
LPI1210FT3R3□-□□	3.3 @ 100kHz	K, M	10 @ 1MHz	100	0.75	700	650
LPI1210FT3R9□-□□	3.9 @ 100kHz	K, M	10 @ 1MHz	90	0.80	650	600
LPI1210FT4R7□-□□	4.7 @ 100kHz	K, M	10 @ 1MHz	80	0.95	600	550
LPI1210FT5R6□-□□	5.6 @ 100kHz	K, M	10 @ 1MHz	65	1.00	550	520
LPI1210FT6R8□-□□	6.8 @ 100kHz	K, M	10 @ 1MHz	55	1.10	500	480
LPI1210FT8R2□-□□	8.2 @ 100kHz	K, M	10 @ 1MHz	40	1.30	480	450
LPI1210FT100□-□□	10.0 @ 100kHz	K, M	10 @ 1MHz	36	1.50	450	430
LPI1210FT120□-□□	12.0 @ 100kHz	K, M	10 @ 1MHz	34	1.60	420	400
LPI1210FT150□-□□	15.0 @ 100kHz	K, M	10 @ 1MHz	32	1.90	400	350
LPI1210FT180□-□□	18.0 @ 100kHz	K, M	10 @ 1MHz	30	2.90	350	320
LPI1210FT220□-□□	22.0 @ 100kHz	K, M	10 @ 1MHz	30	3.50	320	300
LPI1210FT270□-□□	27.0 @ 100kHz	K, M	10 @ 1MHz	25	4.20	280	250
LPI1210FT330□-□□	33.0 @ 100kHz	K, M	10 @ 1MHz	20	5.00	250	220

Tolerance: K=±10% M=±20%

1. Inductance is measured in HP-4284A /4285A RF LCR meter with SMD-A fixture.
2. Q is measured in HP-4284A / 4285A RF LCR meter with SMD-A fixture.
3. SRF is measured in ENA E5071B network analyzer or equivalent.
4. RDC is measured in HP-4338B milliohm meter or equivalent.

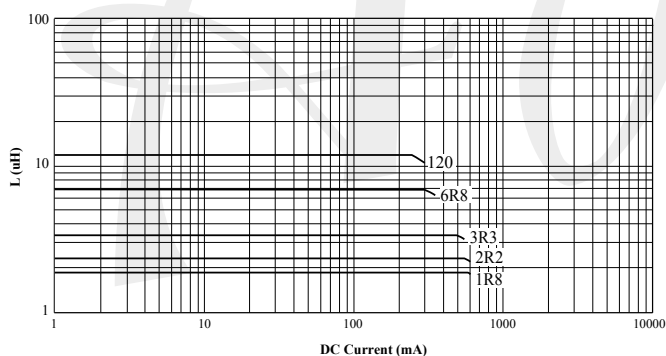
5. Inductance drop 10% from the initial value.
6. For 25°C Rise.

Unit weight = 0.045g (for ref.)

CURVE

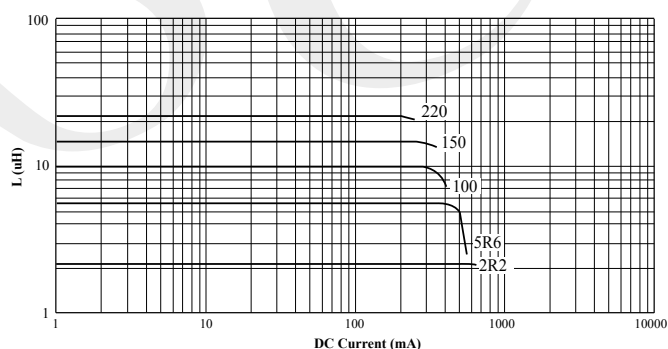
■ LPI0603-FT Series

L vs IDC Chart



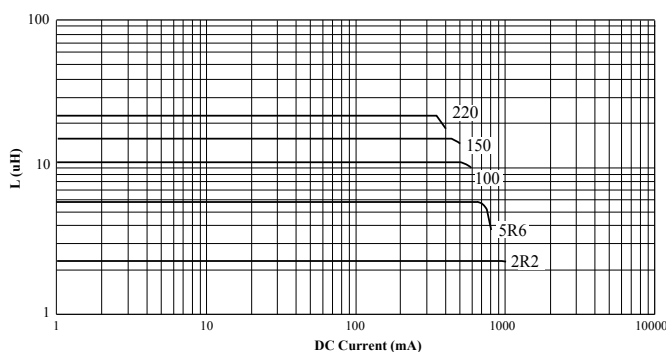
■ LPI0805-FT Series

L vs IDC Chart



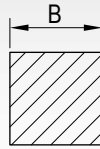
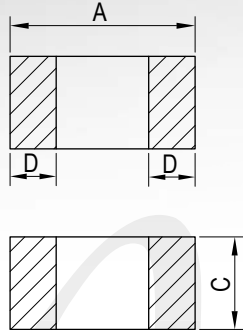
■ LPI1210-FT Series

L vs IDC Chart



MH1005/1608-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

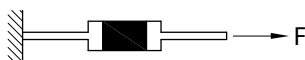
Series	A	B	C	D
MH1005-L	1.00±0.10	0.50±0.10	0.50±0.10	0.20±0.10
MH1608-L	1.60±0.20	0.80±0.20	0.80±0.20	0.30±0.20

DESCRIPTION

- Body: Ceramic
- Internal conductor: Silver
- Terminal electrode: Ag / Ni / Sn
- Product weight: 1.3 (1005) / 5.4 (1608) mg (ref.)
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage Conditions:
Electrical Performance temp: -55°C~ +125°C
Terminal Solderability & Packages Material temp:
-10°C~ +40°C and RH 70% max.
- Operating temp.: -55°C~ +125°C
- Terminal strength:

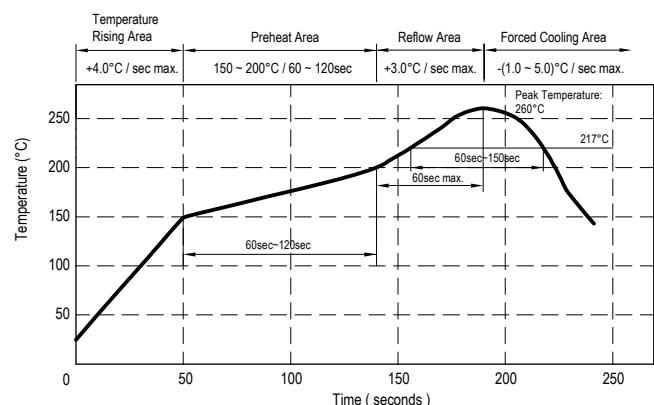


Type	F (kgf)	Time (sec)
MH1005	0.3	30±5
MH1608	0.5	

- Resistance to soldering heat:
Solder temp.: 260°C / Dip time: 10 sec max.
- Recommended IR Reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Monolithic structure with multilayer integration offer excellent reliability.
- Fine electro ceramic material available for high frequency application.
- Ni-Sn electrode with excellent heat resistance suitable for flow & reflow soldering.
- Compact size application at communication device computer peripheral & consumer products.



MH1005/1608-L Series

ELECTRICAL CHARACTERISTICS

■ MH1005-L Series

DWG. No.	Inductance (nH)	Q min.	L/Q Test Freq. (MHz)	SRF (MHz) nom.	RDC (Ω) max.	IDC (mA) max.
MH10051N0DL□-□□□	1.0±0.3	8	100	10000	0.07	400
MH10051N2DL□-□□□	1.2±0.3	8	100	10000	0.09	400
MH10051N5DL□-□□□	1.5±0.3	8	100	9000	0.10	400
MH10051N8DL□-□□□	1.8±0.3	8	100	8700	0.10	400
MH10052N2DL□-□□□	2.2±0.3	8	100	8100	0.12	400
MH10052N7DL□-□□□	2.7±0.3	8	100	7700	0.15	400
MH10053N3DL□-□□□	3.3±0.3	8	100	6300	0.15	400
MH10053N9DL□-□□□	3.9±0.3	8	100	6100	0.18	400
MH10054N7DL□-□□□	4.7±0.3	8	100	6000	0.18	400
MH10055N6DL□-□□□	5.6±0.3	8	100	5100	0.20	400
MH10056N8JL□-□□□	6.8±5%	8	100	4550	0.24	400
MH10058N2JL□-□□□	8.2±5%	8	100	4100	0.24	300
MH100510NJL□-□□□	10.0±5%	8	100	3900	0.26	300
MH100512NJL□-□□□	12.0±5%	8	100	3000	0.40	300
MH100515NJL□-□□□	15.0±5%	8	100	2800	0.50	300
MH100518NJL□-□□□	18.0±5%	8	100	2500	0.55	300
MH100522NJL□-□□□	22.0±5%	8	100	2200	0.70	300
MH100527NJL□-□□□	27.0±5%	8	100	2000	0.80	300
MH100533NJL□-□□□	33.0±5%	8	100	1800	0.90	200
MH100539NJL□-□□□	39.0±5%	8	100	1600	1.00	150
MH100547NJL□-□□□	47.0±5%	8	100	1400	1.20	150
MH100556NJL□-□□□	56.0±5%	8	100	1300	1.30	150
MH100568NJL□-□□□	68.0±5%	8	100	1100	1.50	100
MH100582NJL□-□□□	82.0±5%	8	100	1000	1.60	100
MH1005R10JL□-□□□	100.0±5%	8	100	900	2.00	100

- : Packaging information: □ Code
- "- □□□": Reference code
- Electrical specifications at 25°C

MH1005/1608-L Series

■ MH1608-L Series

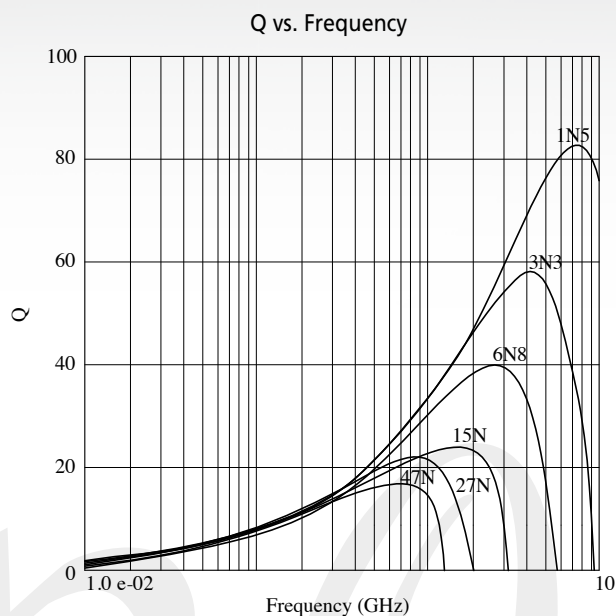
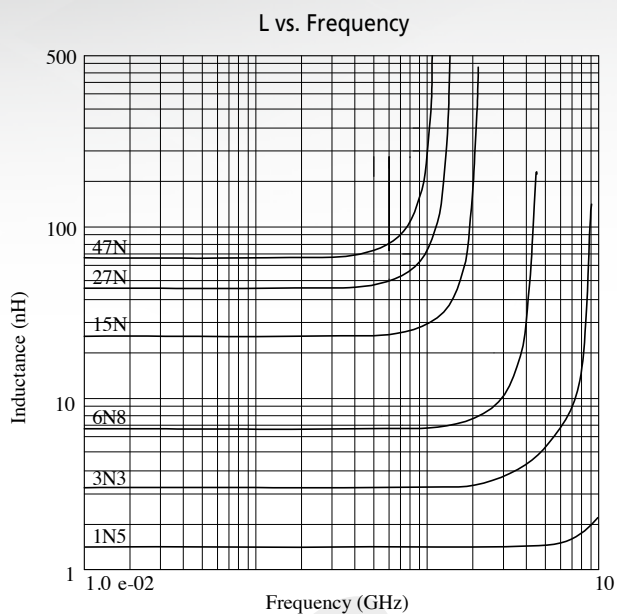
DWG. No.	Inductance (nH)	Q min.	L/Q Test Freq. (MHz)	SRF (MHz) typ.	RDC (Ω) max.	IDC (mA) max.
MH16081N0DL□-□□□	1.0±0.3	8	100	10000	0.10	600
MH16081N2DL□-□□□	1.2±0.3	8	100	10000	0.10	600
MH16081N5DL□-□□□	1.5±0.3	8	100	8000	0.10	600
MH16081N8DL□-□□□	1.8±0.3	8	100	8000	0.10	600
MH16082N2DL□-□□□	2.2±0.3	8	100	7200	0.10	600
MH16082N7DL□-□□□	2.7±0.3	10	100	6200	0.10	600
MH16083N3DL□-□□□	3.3±0.3	10	100	5200	0.12	600
MH16083N9DL□-□□□	3.9±0.3	10	100	5000	0.14	600
MH16084N7DL□-□□□	4.7±0.3	10	100	4750	0.16	600
MH16085N6DL□-□□□	5.6±0.3	10	100	4100	0.18	600
MH16086N8JL□-□□□	6.8±5%	10	100	3750	0.22	600
MH16088N2JL□-□□□	8.2±5%	10	100	3300	0.24	600
MH160810NJL□-□□□	10.0±5%	12	100	3000	0.26	600
MH160812NJL□-□□□	12.0±5%	12	100	2600	0.28	600
MH160815NJL□-□□□	15.0±5%	12	100	2500	0.32	600
MH160818NJL□-□□□	18.0±5%	12	100	2400	0.35	600
MH160822NJL□-□□□	22.0±5%	12	100	2000	0.40	500
MH160827NJL□-□□□	27.0±5%	12	100	1900	0.45	500
MH160833NJL□-□□□	33.0±5%	12	100	1600	0.55	400
MH160839NJL□-□□□	39.0±5%	12	100	1400	0.60	400
MH160847NJL□-□□□	47.0±5%	12	100	1300	0.70	400
MH160856NJL□-□□□	56.0±5%	12	100	1100	0.75	400
MH160862NJL□-□□□	62.0±5%	12	100	1050	0.85	400
MH160868NJL□-□□□	68.0±5%	12	100	1050	0.85	400
MH160882NJL□-□□□	82.0±5%	12	100	900	1.00	300
MH1608R10JL□-□□□	100.0±5%	12	100	770	1.20	300
MH1608R12JL□-□□□	120.0±5%	8	50	850	1.30	300
MH1608R15JL□-□□□	150.0±5%	8	50	550	1.70	250
MH1608R18JL□-□□□	180.0±5%	8	50	520	1.90	250
MH1608R22JL□-□□□	220.0±5%	8	50	500	2.00	250

- : Packaging information: □ Code
- "- □□□": Reference code
- Electrical specifications at 25°C

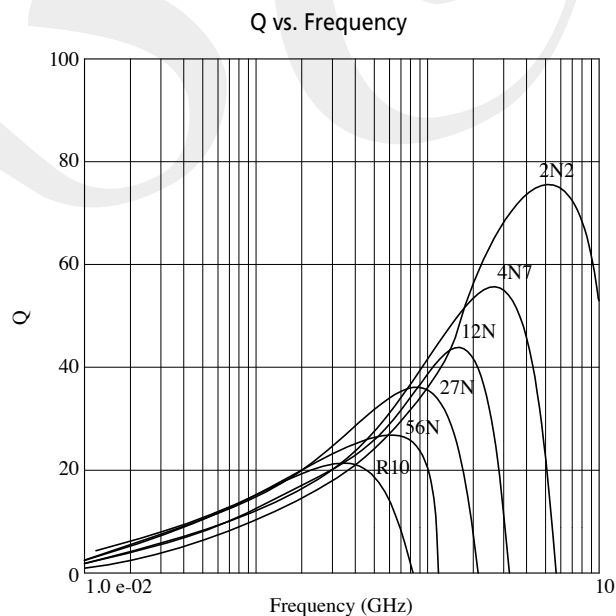
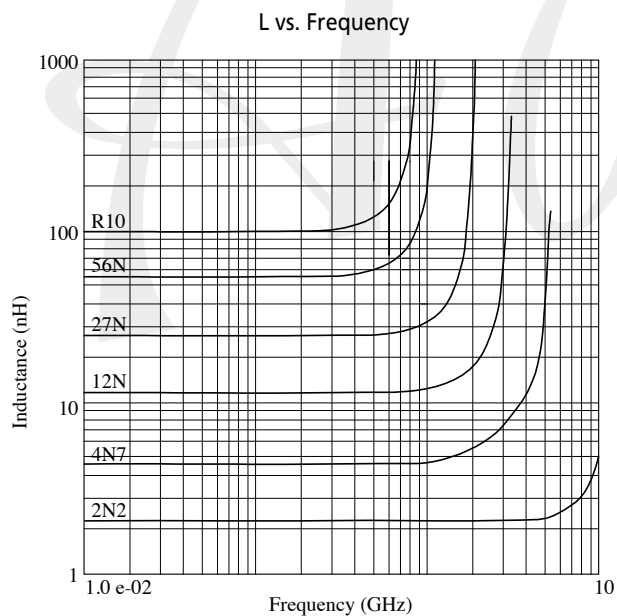
MH1005/1608-L Series

CURVE

■ MH1005-L Series

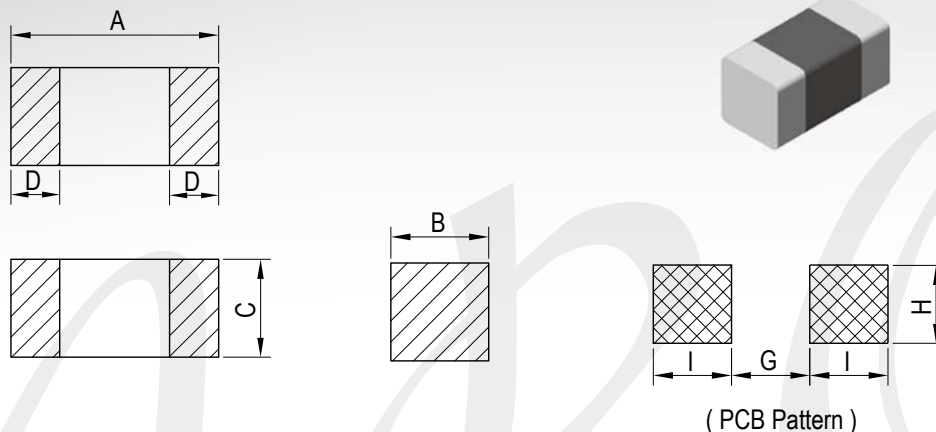


■ MH1608-L Series



MS1608-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	G	H	I
MS1608-L	1.60±0.20	0.80±0.20	0.80±0.20	0.30±0.20	0.70	0.70	0.70

DESCRIPTION

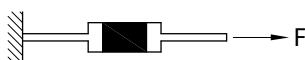
- Body: Ferrite
- Internal conductor: Silver
- Terminal electrode: Ag / Ni / Sn
- Product weight: 5.4mg (ref.)
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Monolithic structure with multilayer integration offer excellent reliability.
- Close magnetic circuit avoid crosstalk effect.
- Ni-Sn electrode with excellent heat resistance suitable for flow & reflow soldering.
- Compact size application at communication device computer peripheral & consumer products.

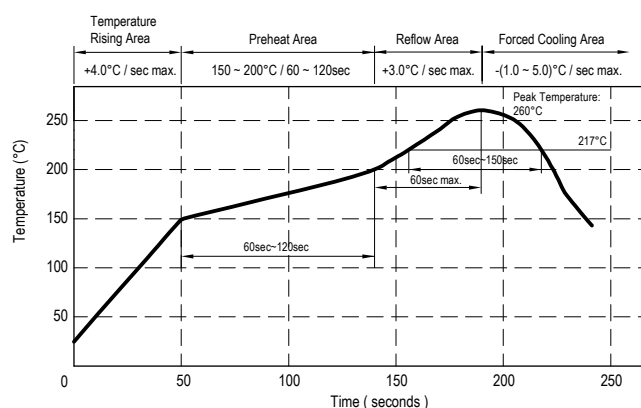
GENERAL SPECIFICATION

- Storage Conditions:
Electrical Performance temp: -55°C ~ +125°C
Terminal Solderability & Packages Material temp:
-10°C ~ +40°C and RH 70% max.
- Operating temp.: -55°C ~ +125°C
- Terminal strength:



Type	F (kgf)	Time (sec)
MS1608	0.5	30±5

- Resistance to soldering heat:
Solder temp.: 260°C / Dip time: 10 sec max.
- Recommended IR Reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



MS1608-L Series

ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Q min.	Test Freq. (MHz)	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
MS160847NML□-□□□	0.047 $\pm$ 20%	10	50	260	0.30	50
MS160868NML□-□□□	0.068 $\pm$ 20%	10	50	250	0.30	50
MS160882NML□-□□□	0.082 $\pm$ 20%	10	50	245	0.30	50
MS1608R10ML□-□□□	0.100 $\pm$ 20%	15	25	240	0.50	50
MS1608R12ML□-□□□	0.120 $\pm$ 20%	15	25	205	0.50	50
MS1608R15ML□-□□□	0.150 $\pm$ 20%	15	25	180	0.60	50
MS1608R18ML□-□□□	0.180 $\pm$ 20%	15	25	165	0.60	50
MS1608R22ML□-□□□	0.220 $\pm$ 20%	15	25	150	0.80	50
MS1608R27ML□-□□□	0.270 $\pm$ 20%	15	25	136	0.80	50
MS1608R33ML□-□□□	0.330 $\pm$ 20%	15	25	125	0.85	35
MS1608R39ML□-□□□	0.390 $\pm$ 20%	15	25	110	1.00	35
MS1608R47ML□-□□□	0.470 $\pm$ 20%	15	25	105	1.35	35
MS1608R56ML□-□□□	0.560 $\pm$ 20%	15	25	95	1.55	35
MS1608R68ML□-□□□	0.680 $\pm$ 20%	15	25	90	1.70	35
MS1608R82ML□-□□□	0.820 $\pm$ 20%	15	25	85	2.10	35
MS16081R0ML□-□□□	1.000 $\pm$ 20%	35	10	75	0.60	25
MS16081R2ML□-□□□	1.200 $\pm$ 20%	35	10	65	0.80	25
MS16081R5ML□-□□□	1.500 $\pm$ 20%	35	10	60	0.80	25
MS16081R8ML□-□□□	1.800 $\pm$ 20%	35	10	55	0.95	25
MS16082R2ML□-□□□	2.200 $\pm$ 20%	35	10	50	1.15	15
MS16082R7ML□-□□□	2.700 $\pm$ 20%	35	10	45	1.35	15
MS16083R3ML□-□□□	3.300 $\pm$ 20%	35	10	40	1.55	15
MS16083R9ML□-□□□	3.900 $\pm$ 20%	35	10	35	1.70	15
MS16084R7ML□-□□□	4.700 $\pm$ 20%	35	10	33	2.10	15
MS16085R6ML□-□□□	5.600 $\pm$ 20%	35	4	22	1.55	5
MS16086R8ML□-□□□	6.800 $\pm$ 20%	35	4	20	1.70	5
MS16088R2ML□-□□□	8.200 $\pm$ 20%	35	4	18	2.10	5
MS1608100ML□-□□□	10.000 $\pm$ 20%	30	2	17	1.85	3

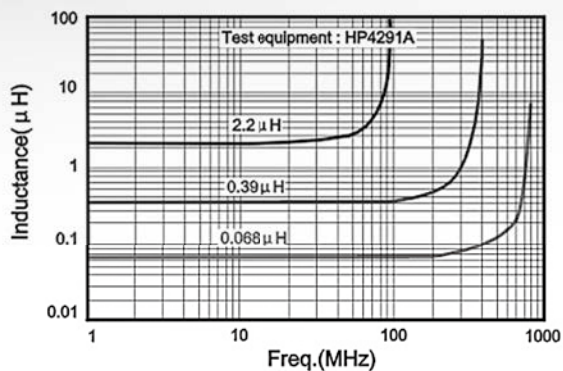
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- "-□□□": Reference code
- Electrical specifications at 25°C

MS1608-L Series

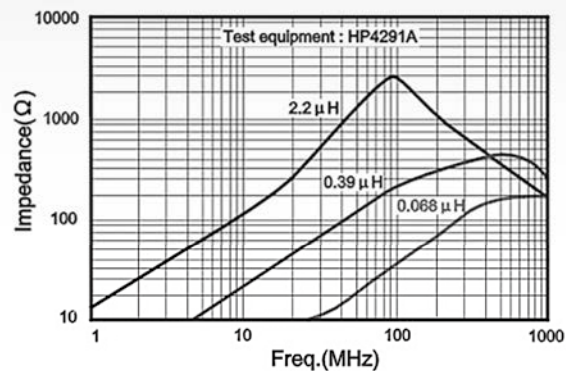
CURVE

■ MS1608-L Series

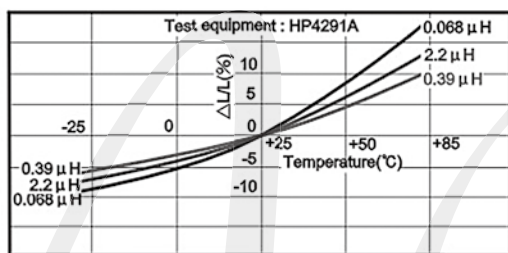
Inductance vs. Frequency Characteristics



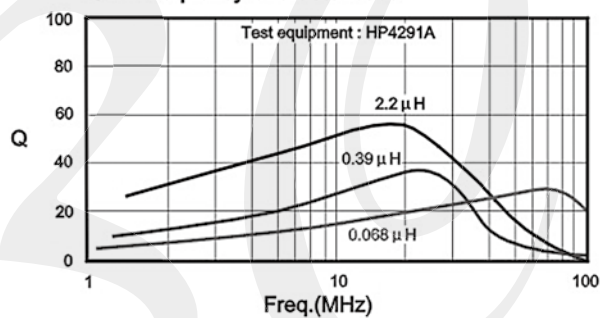
Impedance vs. Frequency Characteristics



Inductance vs. Temperature Characteristics



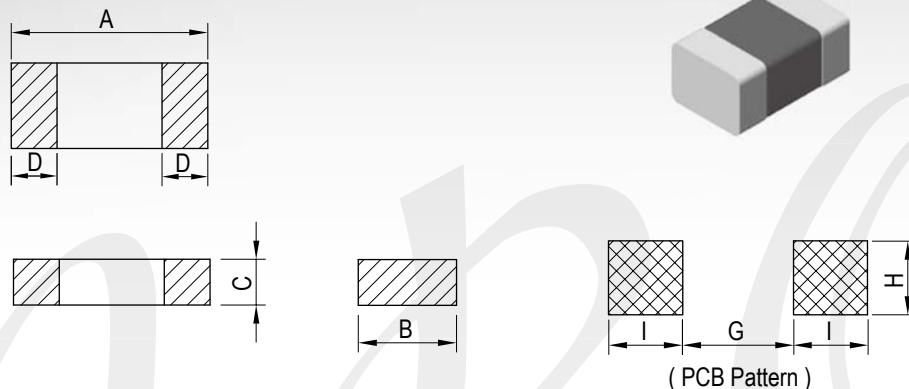
Q vs. Frequency Characteristics



MS2029/2022-L Series

CONFIGURATION & DIMENSIONS

MS



Unit: mm

Series	A	B	C	D	G	H	I
MS2029-L	2.00±0.20	1.20±0.20	0.90±0.20	0.50±0.30	0.80	1.00	1.00
MS2022-L	2.00±0.20	1.20±0.20	1.20±0.20	0.50±0.30	0.80	1.00	1.00

DESCRIPTION

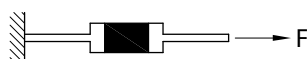
- Body: Ferrite
- Internal conductor: Silver
- Terminal electrode: Ag / Ni / Sn
- Product weight: 10.0 (2029) / 14.7 (2022)mg (ref.)
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Monolithic structure with multilayer integration offer excellent reliability.
- Close magnetic circuit avoid crosstalk effect.
- Ni-Sn electrode with excellent heat resistance suitable for flow & reflow soldering.
- Compact size application at communication device computer peripheral & consumer products.

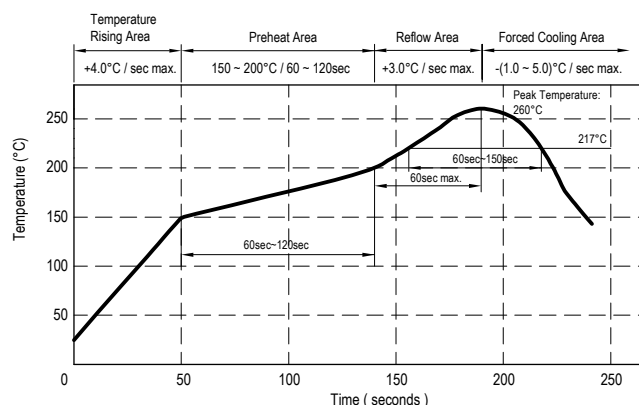
GENERAL SPECIFICATION

- Storage Conditions:
Electrical Performance temp: -55°C~ +125°C
Terminal Solderability & Packages Material temp:
-10°C~ +40°C and RH 70% max.
- Operating temp.: -55°C~ +125°C
- Terminal strength:



Type	F (kgf)	Time (sec)
MS2029	0.6	30±5
MS2022	0.8	

- Resistance to soldering heat:
Solder temp.: 260°C / Dip time: 10 sec max.
- Recommended IR Reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



MS2029/2022-L Series

ELECTRICAL CHARACTERISTICS

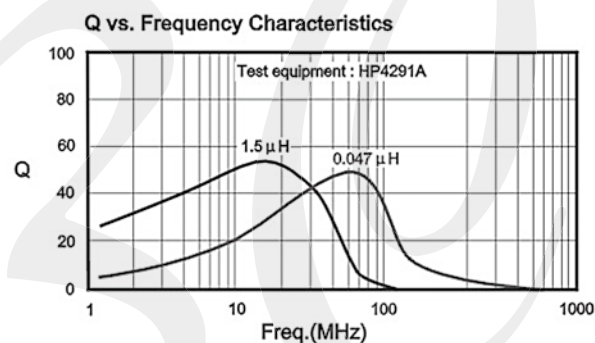
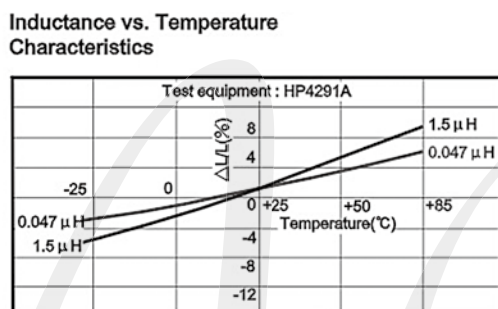
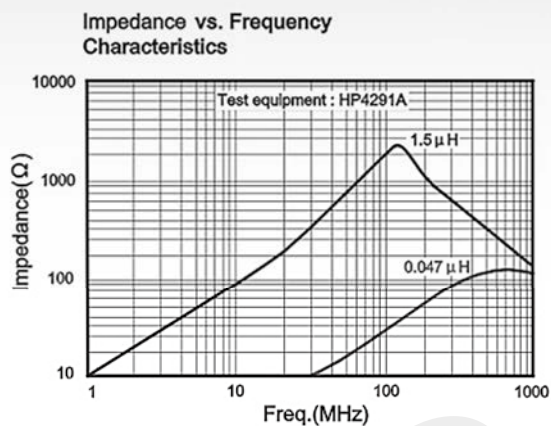
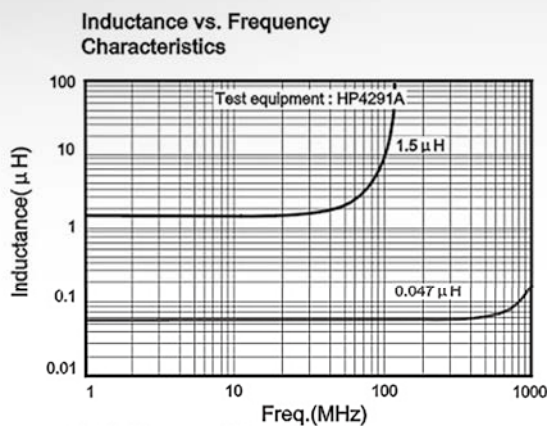
DWG. No.	Inductance (μ H)	Q min.	Test Freq. (MHz)	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
MS202947NML□-□□□	0.047 $\pm$ 20%	15	50	320	0.20	300
MS202968NML□-□□□	0.068 $\pm$ 20%	15	50	280	0.20	300
MS202982NML□-□□□	0.082 $\pm$ 20%	15	50	255	0.20	300
MS2029R10ML□-□□□	0.100 $\pm$ 20%	20	25	235	0.30	250
MS2029R12ML□-□□□	0.120 $\pm$ 20%	20	25	220	0.30	250
MS2029R15ML□-□□□	0.150 $\pm$ 20%	20	25	200	0.40	250
MS2029R18ML□-□□□	0.180 $\pm$ 20%	20	25	185	0.40	250
MS2029R22ML□-□□□	0.220 $\pm$ 20%	20	25	170	0.50	250
MS2029R27ML□-□□□	0.270 $\pm$ 20%	20	25	150	0.50	250
MS2029R33ML□-□□□	0.330 $\pm$ 20%	20	25	145	0.55	250
MS2029R39ML□-□□□	0.390 $\pm$ 20%	25	25	135	0.65	200
MS2029R47ML□-□□□	0.470 $\pm$ 20%	25	25	125	0.65	200
MS2029R56ML□-□□□	0.560 $\pm$ 20%	25	25	115	0.75	150
MS2029R68ML□-□□□	0.680 $\pm$ 20%	25	25	105	0.80	150
MS2029R82ML□-□□□	0.820 $\pm$ 20%	25	25	100	1.00	150
MS20291R0ML□-□□□	1.000 $\pm$ 20%	45	10	75	0.40	50
MS20291R2ML□-□□□	1.200 $\pm$ 20%	45	10	65	0.50	50
MS20291R5ML□-□□□	1.500 $\pm$ 20%	45	10	60	0.50	50
MS20291R8ML□-□□□	1.800 $\pm$ 20%	45	10	55	0.60	50
MS20292R2ML□-□□□	2.200 $\pm$ 20%	45	10	50	0.65	30
MS2022R7ML□-□□□	2.700 $\pm$ 20%	45	10	45	0.75	30
MS2022R3ML□-□□□	3.300 $\pm$ 20%	45	10	41	0.80	30
MS2022R9ML□-□□□	3.900 $\pm$ 20%	45	10	38	0.90	30
MS2022R7ML□-□□□	4.700 $\pm$ 20%	45	10	35	1.00	30
MS2022R6ML□-□□□	5.600 $\pm$ 20%	50	4	32	0.90	15
MS2022R8ML□-□□□	6.800 $\pm$ 20%	50	4	29	1.00	15

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

MS2029/2022-L Series

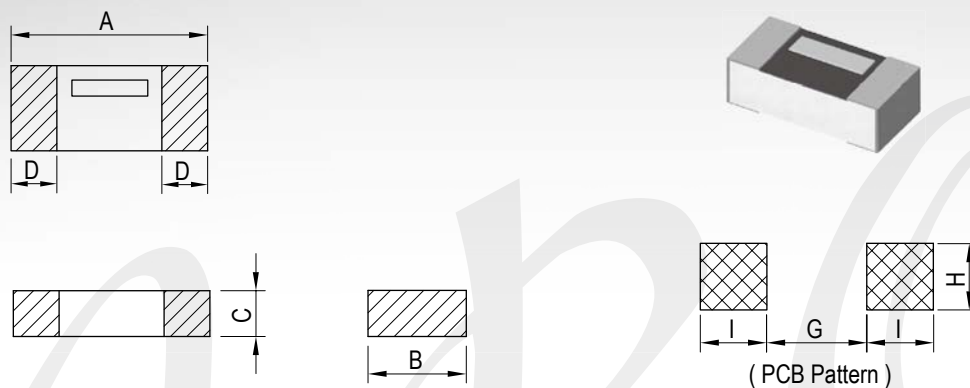
CURVE

■ MS2029-L/MS2022-L Series



AL0603/1005-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	G	H	I
AL0603-L	0.60±0.05	0.30±0.05	0.23±0.05	0.15±0.05	0.30	0.30	0.25
AL1005-L	1.00±0.05	0.50±0.05	0.32±0.05	0.20±0.10	0.50	0.60	0.45

DESCRIPTION

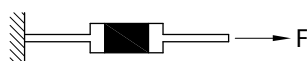
- Body: Ceramic
- Internal conductor: Cu
- Terminal electrode: Ni-Cr/Ni/Sn
- Product weight: 0.3 (0603) / 1.3 (1005)mg (ref.)
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Thin film processing onto ceramic substrate offer accurate inductance.
- Excellent inductance vs temperature coefficient & High self resonant frequency up to GHz.
- Especially for high frequency application such as RF transceiver & wireless communication.

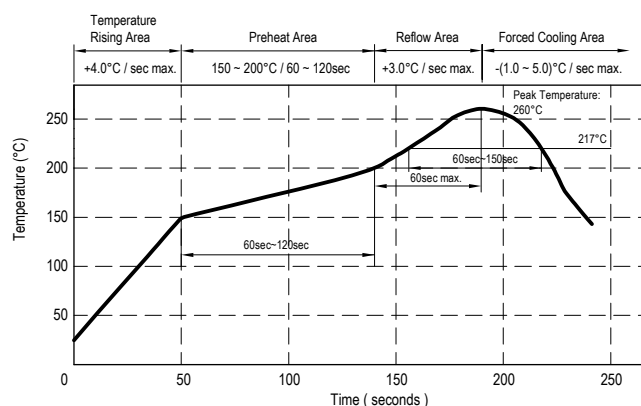
GENERAL SPECIFICATION

- Storage Conditions:
Electrical Performance temp: -40°C~ +85°C
Terminal Solderability & Packages Material temp:
-10°C~ +40°C and RH 70% max.
- Operating temp.: -40°C~ +85°C
- Terminal strength:



Type	F (kgf)	Time (sec)
AL0603	0.3	30±5
AL1005	0.3	

- Resistance to soldering heat:
Solder temp.: 260°C / Dip time: 10 sec max.
- Recommended IR Reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



AL0603/1005-L Series

ELECTRICAL CHARACTERISTICS

■ AL0603-L Series

DWG. No.	Inductance (nH)	Tolerance	Q min.	Test Freq. (MHz)	SRF (GHz) min.	DC Resistance (Ω) max.	Rated Current (mA) max.
AL06031N0□L□-□□□	1.0	B, C, D	8	500	9	0.30	300
AL06031N1□L□-□□□	1.1	B, C, D	8	500	9	0.35	300
AL06031N2□L□-□□□	1.2	B, C, D	8	500	9	0.35	300
AL06031N3□L□-□□□	1.3	B, C, D	8	500	9	0.45	250
AL06031N4□L□-□□□	1.4	B, C, D	8	500	9	0.45	250
AL06031N5□L□-□□□	1.5	B, C, D	8	500	9	0.45	250
AL06031N6□L□-□□□	1.6	B, C, D	8	500	9	0.55	200
AL06031N7□L□-□□□	1.7	B, C, D	8	500	9	0.55	200
AL06031N8□L□-□□□	1.8	B, C, D	8	500	9	0.55	200
AL06031N9□L□-□□□	1.9	B, C, D	8	500	9	0.55	200
AL06032N0□L□-□□□	2.0	B, C, D	8	500	8	0.70	200
AL06032N1□L□-□□□	2.1	B, C, D	8	500	8	0.70	200
AL06032N2□L□-□□□	2.2	B, C, D	8	500	8	0.70	200
AL06032N3□L□-□□□	2.3	B, C, D	8	500	8	0.80	150
AL06032N4□L□-□□□	2.4	B, C, D	8	500	8	0.80	150
AL06032N5□L□-□□□	2.5	B, C, D	8	500	8	0.80	150
AL06032N6□L□-□□□	2.6	B, C, D	8	500	8	0.80	150
AL06032N7□L□-□□□	2.7	B, C, D	8	500	8	0.80	150
AL06032N8□L□-□□□	2.8	B, C, D	8	500	6	1.00	150
AL06032N9□L□-□□□	2.9	B, C, D	8	500	6	1.00	150
AL06033N0□L□-□□□	3.0	B, C, D	8	500	6	1.00	150
AL06033N1□L□-□□□	3.1	B, C, D	8	500	6	1.00	150
AL06033N2□L□-□□□	3.2	B, C, D	8	500	6	1.00	150
AL06033N3□L□-□□□	3.3	B, C, D	8	500	6	1.00	150
AL06033N4□L□-□□□	3.4	B, C, D	8	500	6	1.20	150
AL06033N5□L□-□□□	3.5	B, C, D	8	500	6	1.20	150
AL06033N6□L□-□□□	3.6	B, C, D	8	500	6	1.20	150
AL06033N7□L□-□□□	3.7	B, C, D	8	500	6	1.20	150
AL06033N9□L□-□□□	3.9	B, C, D	8	500	6	1.20	150
AL06034N7□L□-□□□	4.7	B, C, D	8	500	6	1.40	130
AL06035N6□L□-□□□	5.6	G, H, J	8	500	4	1.80	130
AL06036N8□L□-□□□	6.8	G, H, J	8	500	4	2.30	110
AL06038N2□L□-□□□	8.2	G, H, J	8	500	3	3.00	110
AL060310N□L□-□□□	10.0	G, H, J	8	500	2	3.50	80

1. □ : Packaging information: □ Code
2. "-□□□": Reference code
3. Electrical specifications at 25°C
4. Tolerance: B:±0.1nH C:±0.2nH D:±0.3nH G:±2% H:±3% J:±5%

AL0603/1005-L Series

■ AL1005-L Series

DWG. No.	Inductance (nH)	Tolerance	Q min.	Test Freq. (MHz)	SRF (GHz) min.	DC Resistance (Ω) max.	Rated Current (mA) max.
AL10050N2□L□-□□□	0.2	B, C, D	13	500	14	0.10	800
AL10050N4□L□-□□□	0.4	B, C, D	13	500	14	0.10	800
AL10050N8□L□-□□□	0.8	B, C, D	13	500	14	0.15	700
AL10051N0□L□-□□□	1.0	B, C, D	13	500	12	0.15	700
AL10051N1□L□-□□□	1.1	B, C, D	13	500	12	0.15	700
AL10051N2□L□-□□□	1.2	B, C, D	13	500	12	0.15	700
AL10051N3□L□-□□□	1.3	B, C, D	13	500	10	0.25	700
AL10051N4□L□-□□□	1.4	B, C, D	13	500	10	0.25	700
AL10051N5□L□-□□□	1.5	B, C, D	13	500	10	0.25	700
AL10051N6□L□-□□□	1.6	B, C, D	13	500	10	0.25	560
AL10051N7□L□-□□□	1.7	B, C, D	13	500	10	0.25	560
AL10051N8□L□-□□□	1.8	B, C, D	13	500	10	0.25	560
AL10051N9□L□-□□□	1.9	B, C, D	13	500	8	0.35	560
AL10052N0□L□-□□□	2.0	B, C, D	13	500	8	0.35	560
AL10052N1□L□-□□□	2.1	B, C, D	13	500	8	0.35	440
AL10052N2□L□-□□□	2.2	B, C, D	13	500	8	0.35	440
AL10052N3□L□-□□□	2.3	B, C, D	13	500	8	0.35	440
AL10052N4□L□-□□□	2.4	B, C, D	13	500	8	0.35	440
AL10052N5□L□-□□□	2.5	B, C, D	13	500	8	0.35	440
AL10052N6□L□-□□□	2.6	B, C, D	13	500	8	0.35	440
AL10052N7□L□-□□□	2.7	B, C, D	13	500	8	0.35	440
AL10052N8□L□-□□□	2.8	B, C, D	13	500	6	0.45	380
AL10052N9□L□-□□□	2.9	B, C, D	13	500	6	0.45	380
AL10053N0□L□-□□□	3.0	B, C, D	13	500	6	0.45	380
AL10053N1□L□-□□□	3.1	B, C, D	13	500	6	0.45	380
AL10053N2□L□-□□□	3.2	B, C, D	13	500	6	0.45	380
AL10053N3□L□-□□□	3.3	B, C, D	13	500	6	0.45	380
AL10053N4□L□-□□□	3.4	B, C, D	13	500	6	0.55	380
AL10053N5□L□-□□□	3.5	B, C, D	13	500	6	0.55	380
AL10053N6□L□-□□□	3.6	B, C, D	13	500	6	0.55	380
AL10053N7□L□-□□□	3.7	B, C, D	13	500	6	0.55	340
AL10053N8□L□-□□□	3.8	B, C, D	13	500	6	0.55	340
AL10053N9□L□-□□□	3.9	B, C, D	13	500	6	0.55	340
AL10054N7□L□-□□□	4.7	B, C, D	13	500	6	0.65	320
AL10055N6□L□-□□□	5.6	B, C, D	13	500	6	0.85	280
AL10055N9□L□-□□□	5.9	B, C, D	13	500	6	0.85	280
AL10056N8□L□-□□□	6.8	B, C, D	13	500	6	1.05	260

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C
- Tolerance: B:±0.1nH C:±0.2nH D:±0.3nH G:±2% H:±3% J:±5%

AL0603/1005-L Series

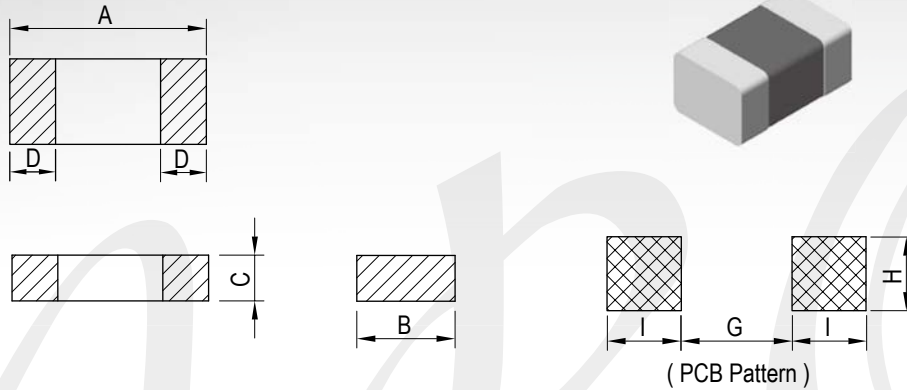
■ AL1005-L Series

DWG. No.	Inductance (nH)	Tolerance	Q min.	Test Freq. (MHz)	SRF (GHz) min.	DC Resistance (Ω) max.	Rated Current (mA) max.
AL10057N2□L□-□□□	7.2	B, C, D	13	500	6.0	1.05	260
AL10058N0□L□-□□□	8.0	B, C, D	13	500	5.5	1.25	220
AL10058N2□L□-□□□	8.2	B, C, D	13	500	5.5	1.25	220
AL10059N1□L□-□□□	9.1	B, C, D	13	500	5.5	1.25	220
AL100510N□L□-□□□	10.0	F, G, H, J	13	500	4.5	1.35	200
AL100512N□L□-□□□	12.0	F, G, H, J	13	500	3.7	1.55	180
AL100514N□L□-□□□	13.8	F, G, H, J	13	500	3.7	1.75	180
AL100515N□L□-□□□	15.0	F, G, H, J	13	500	3.3	1.75	130
AL100517N□L□-□□□	17.0	F, G, H, J	13	500	3.1	1.95	100
AL100518N□L□-□□□	18.0	F, G, H, J	13	500	3.1	2.15	100
AL100521N□L□-□□□	20.8	F, G, H, J	13	500	2.8	2.55	90
AL100522N□L□-□□□	22.0	F, G, H, J	13	500	2.8	2.65	90
AL100527N□L□-□□□	27.0	F, G, H, J	13	500	2.5	3.25	75
AL100533N□L□-□□□	33.0	J	13	500	2.5	4.50	75

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C
- Tolerance: B:±0.1nH C:±0.2nH D:±0.3nH F:±1% G:±2% H:±3% J:±5%

SM1608/2029-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

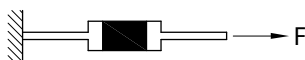
Series	A	B	C	D	G	H	I
SM1608	1.60±0.20	0.80±0.20	0.80±0.20	0.30±0.20	0.70	0.70	0.70
SM2029	2.00±0.20	1.20±0.20	0.90±0.20	0.50±0.30	0.80	1.00	1.00

DESCRIPTION

- Body: Ferrite
- Internal conductor: Silver
- Terminal electrode: Ag / Ni / Sn
- Product weight: 5.4 (1608) / 10.0 (2029)mg (ref.)
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage Conditions:
Electrical Performance temp: -55°C~ +125°C
Terminal Solderability & Packages Material temp:
-10°C~ +40°C and RH 70% max.
- Operating temp.: -55°C~ +125°C
- Terminal strength:

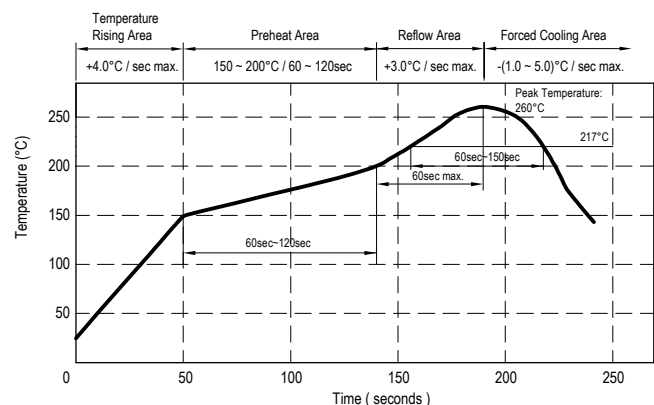


Type	F (kgf)	Time (sec)
SM1608	0.5	30±5
SM2029	0.6	

- Resistance to soldering heat:
Solder temp.: 260°C / Dip time: 10 sec max.
- Recommended IR Reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Monolithic structure with multilayer integration offer excellent reliability.
- Close magnetic circuit avoid crosstalk effect.
- Ni-Sn electrode with excellent heat resistance suitable for flow & reflow soldering.
- Compact size application at communication device computer peripheral & consumer products.



SM1608/2029-L Series

ELECTRICAL CHARACTERISTICS

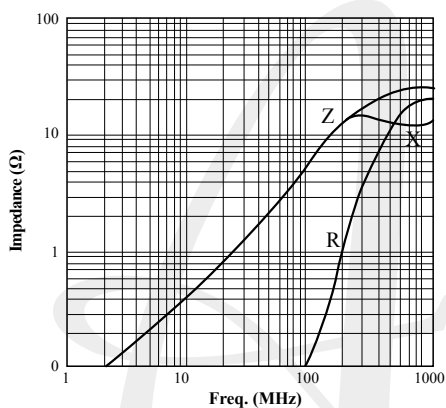
■ SM1608/2029-L Series

DWG. No.	Impedance (Ω) at 100MHz	RDC (Ω) max.	IDC (mA) max.
SM1608050YL□-□□□	5 $\pm$ 25%	0.20	600
SM1608090YL□-□□□	9 $\pm$ 25%	0.20	500
SM1608300YL□-□□□	30 $\pm$ 25%	0.20	400
SM2029070YL□-□□□	7 $\pm$ 25%	0.15	600
SM2029100YL□-□□□	10 $\pm$ 25%	0.15	600
SM2029110YL□-□□□	11 $\pm$ 25%	0.15	600

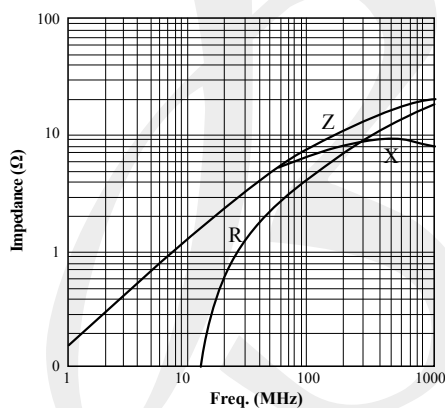
- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

CURVE

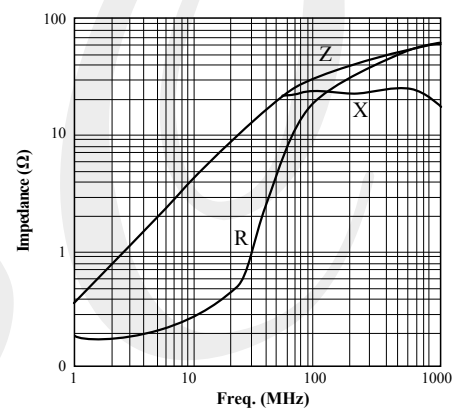
SM1608050YL□



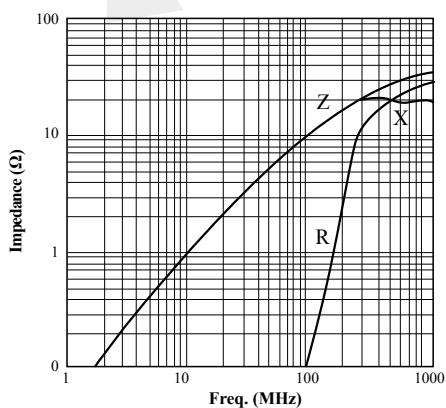
SM1608090YL□



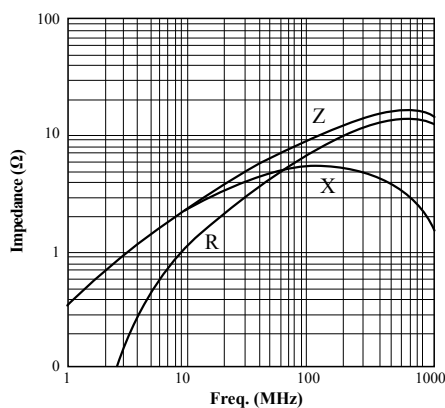
SM1608300YL□



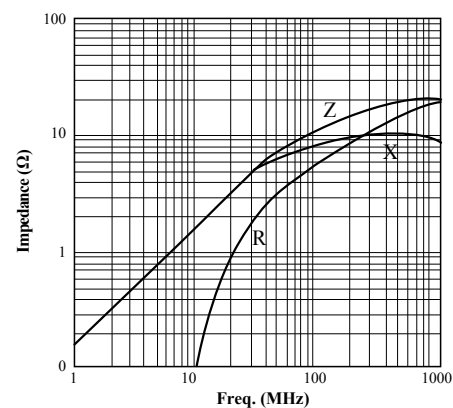
SM2029070YL□



SM2029100YL□

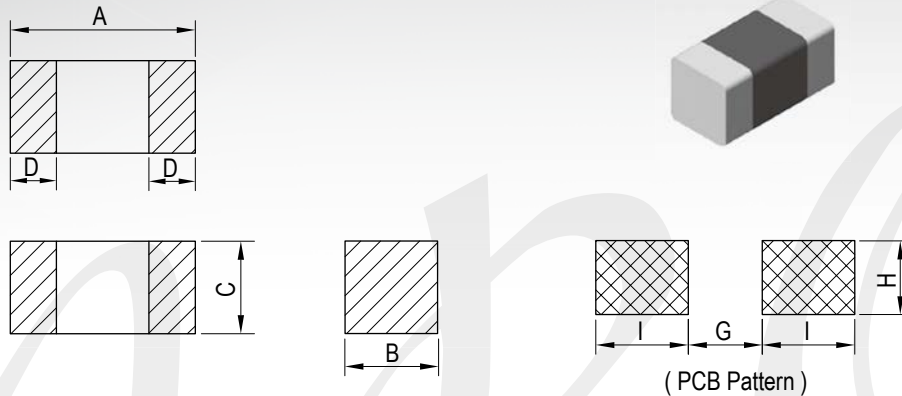


SM2029110YL□



MU1005-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	G	H	I
MU1005	1.00±0.10	0.50±0.10	0.50±0.10	0.20±0.10	0.40	0.40	0.50

DESCRIPTION

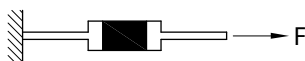
- Body: Ferrite
- Internal conductor: Silver
- Terminal electrode: Ag / Ni / Sn
- Product weight: 1.3mg (ref.)
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Monolithic structure with multilayer integration offer excellent reliability.
- Close magnetic circuit avoid crosstalk effect.
- Ni-Sn electrode with excellent heat resistance suitable for flow & reflow soldering.
- Compact size application at communication device computer peripheral & consumer products.

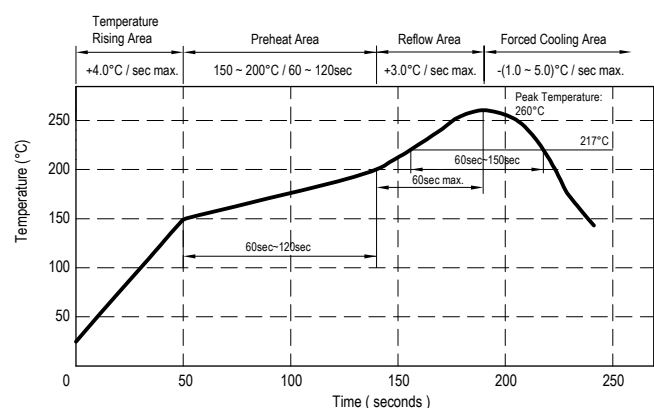
GENERAL SPECIFICATION

- Storage Conditions:
Electrical Performance temp: -55°C~ +125°C
Terminal Solderability & Packages Material temp:
-10°C~ +40°C and RH 70% max.
- Operating temp.: -55°C~ +125°C
- Terminal strength:



Type	F (kgf)	Time (sec)
MU1005	0.3	30±5

- Resistance to soldering heat:
Solder temp.: 260°C / Dip time: 10 sec max.
- Recommended IR Reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



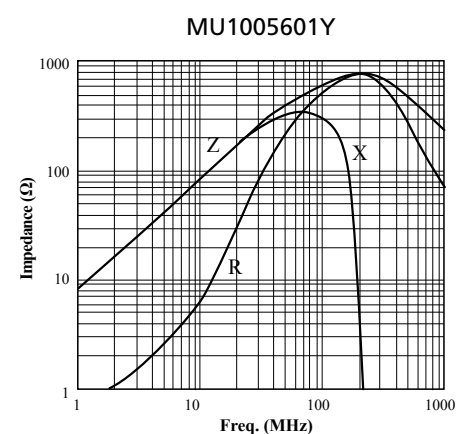
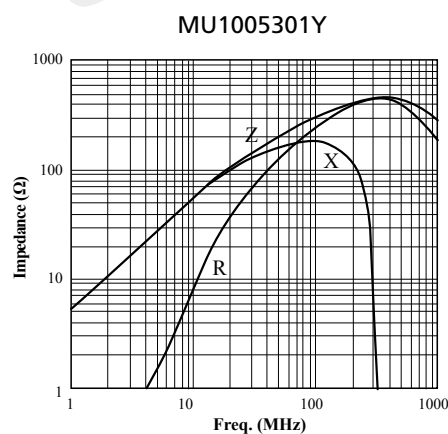
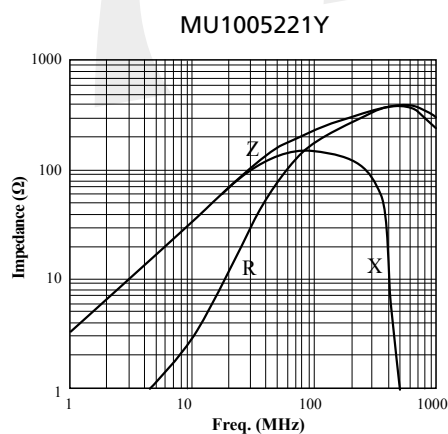
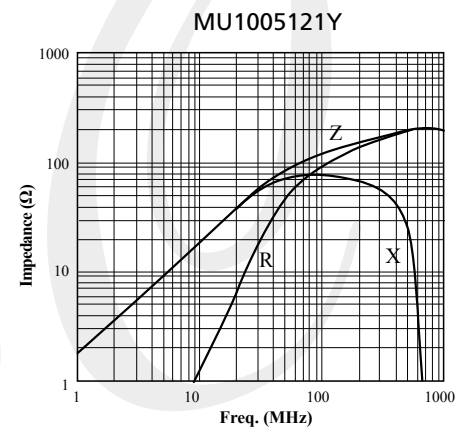
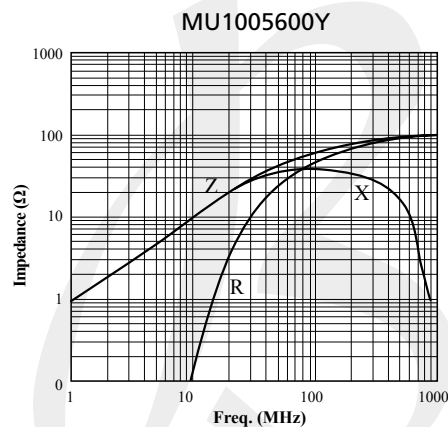
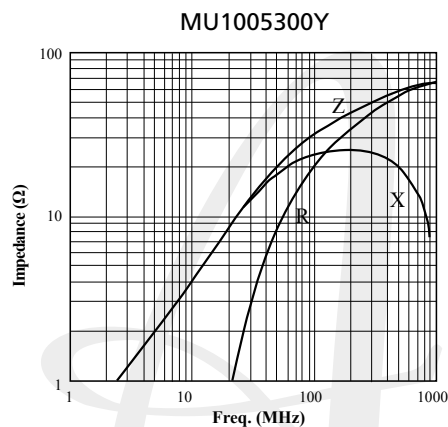
MU1005-L Series

ELECTRICAL CHARACTERISTICS

DWG. No.	Impedance (Ω) at 100MHz	DC Resistance (Ω) max.	Rated Current (mA) max.
MU1005300YL□-□□□	30.0 $\pm$ 25%	0.30	500
MU1005600YL□-□□□	60.0 $\pm$ 25%	0.40	200
MU1005121YL□-□□□	120.0 $\pm$ 25%	0.50	200
MU1005221YL□-□□□	220.0 $\pm$ 25%	0.70	100
MU1005301YL□-□□□	300.0 $\pm$ 25%	0.80	100
MU1005601YL□-□□□	600.0 $\pm$ 25%	1.00	100

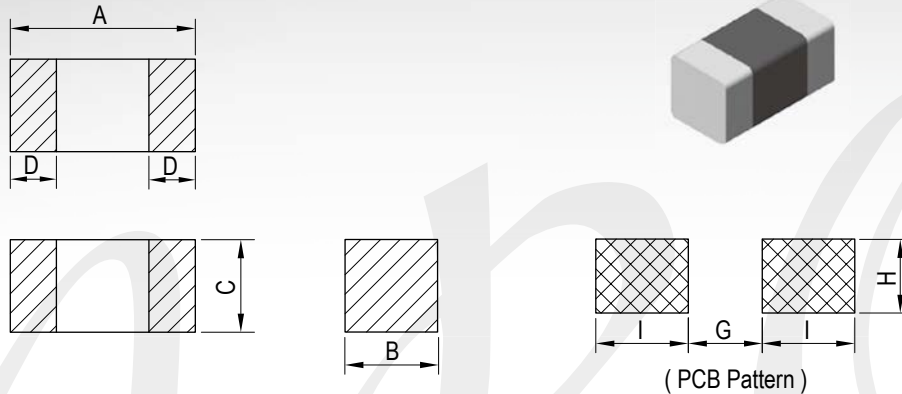
- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

CURVE



M□1608/2029-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	G	H	I
M□1608	1.60±0.20	0.80±0.20	0.80±0.20	0.30±0.20	0.70	0.70	0.70
M□2029	2.00±0.20	1.20±0.20	0.90±0.20	0.50±0.30	0.80	1.00	1.00

DESCRIPTION

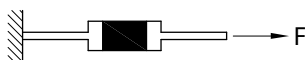
- Body: Ferrite
- Internal conductor: Silver
- Terminal electrode: Ag / Ni / Sn
- Product weight: 5.4 (1608) / 10.0 (2029)mg (ref.)
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Monolithic structure with multilayer integration offer excellent reliability.
- Close magnetic circuit avoid crosstalk effect.
- Ni-Sn electrode with excellent heat resistance suitable for flow & reflow soldering.
- Compact size application at communication device computer peripheral & consumer products.

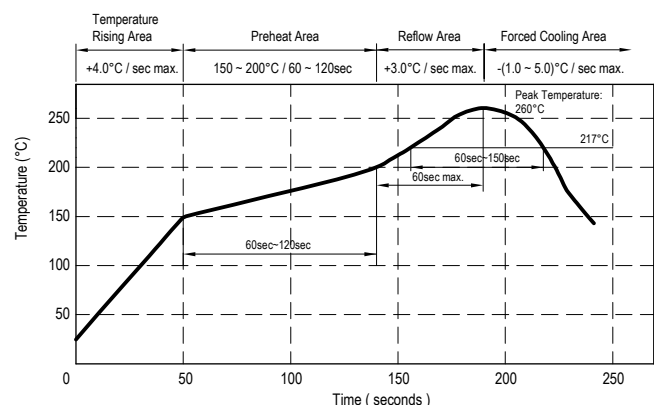
GENERAL SPECIFICATION

- Storage Conditions:
Electrical Performance temp: -55°C~ +125°C
Terminal Solderability & Packages Material temp:
-10°C~ +40°C and RH 70% max.
- Operating temp.: -55°C~ +125°C
- Terminal strength:



Type	F (kgf)	Time (sec)
M□1608	0.5	30±5
M□2029	0.6	

- Resistance to soldering heat:
Solder temp.: 260°C / Dip time: 10 sec max.
- Recommended IR Reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



M□1608/2029-L Series

ELECTRICAL CHARACTERISTICS

■ M□1608 Series

DWG. No.	Impedance (Ω) at 100MHz	RDC (Ω) max.	IDC (mA) max.
MD1608400YL □-□□□	40 $\pm$ 25%	0.30	300
MG1608800YL □-□□□	80 $\pm$ 25%	0.20	300
MG1608121YL □-□□□	120 $\pm$ 25%	0.20	200
MU1608221YL □-□□□	220 $\pm$ 25%	0.20	200
MU1608301YL □-□□□	300 $\pm$ 25%	0.35	200
MZ1608601YL □-□□□	600 $\pm$ 25%	0.45	200
MZ1608102YL □-□□□	1000 $\pm$ 25%	0.60	100
MG1608152YL □-□□□	1500 $\pm$ 25%	0.70	50
MG1608202YL □-□□□	2000 $\pm$ 25%	0.80	50

1. □ : Packaging information: □ Code
2. "- □□□": Reference code
3. Electrical specifications at 25°C

■ M□2029 Series

DWG. No.	Impedance (Ω) at 100MHz	RDC (Ω) max.	IDC (mA) max.
MD2029400YL □-□□□	40 $\pm$ 25%	0.20	300
MG2029800YL □-□□□	80 $\pm$ 25%	0.15	300
MG2029121YL □-□□□	120 $\pm$ 25%	0.25	300
MU2029221YL □-□□□	220 $\pm$ 25%	0.30	200
MU2029301YL □-□□□	300 $\pm$ 25%	0.30	200
MZ2029601YL □-□□□	600 $\pm$ 25%	0.35	200
MZ2029102YL □-□□□	1000 $\pm$ 25%	0.45	200
MG2029152YL □-□□□	1500 $\pm$ 25%	0.45	200
MG2029202YL □-□□□	2000 $\pm$ 25%	0.60	200

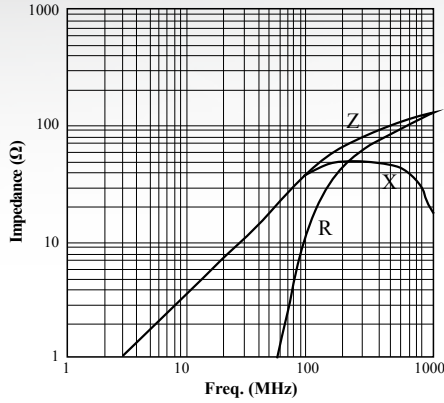
1. □ : Packaging information: □ Code
2. "- □□□": Reference code
3. Electrical specifications at 25°C

M□1608/2029-L Series

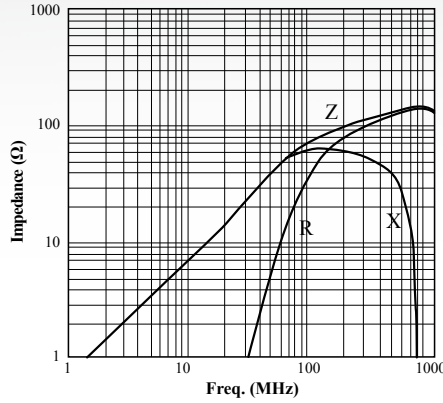
CURVE

■ M□1608 Series

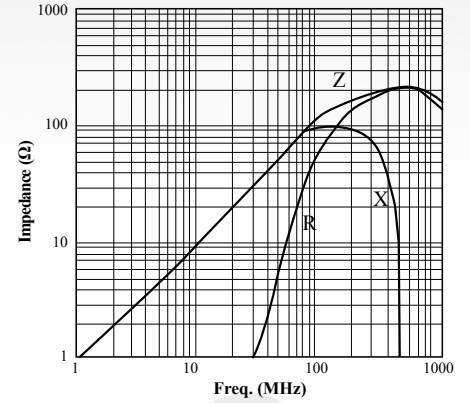
MD1608400YL□



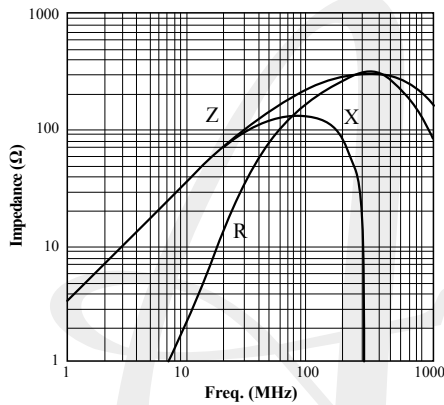
MG1608800YL□



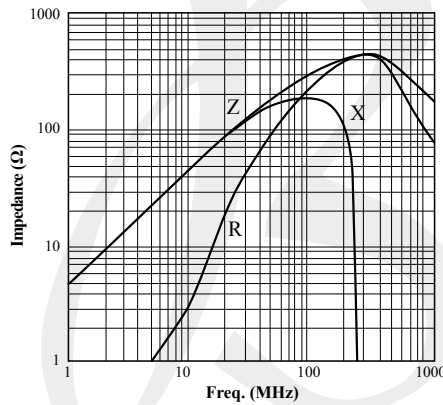
MG1608121YL□



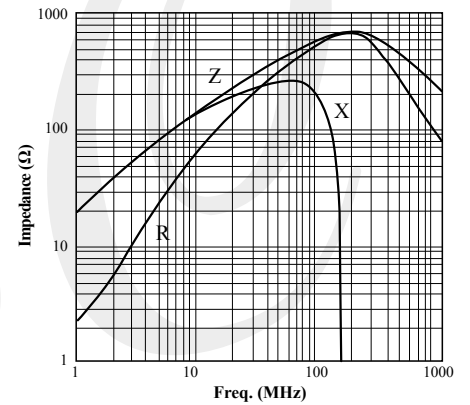
MU1608221YL□



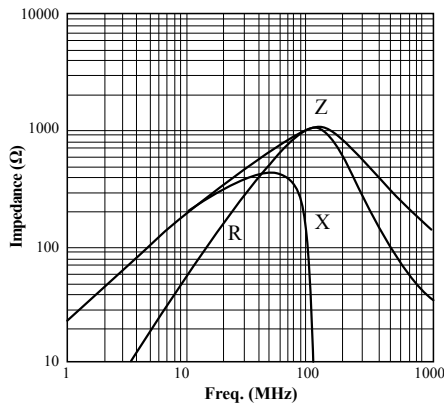
MU1608301YL□



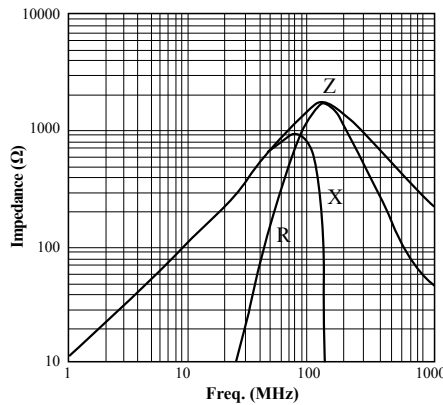
MZ1608601YL□



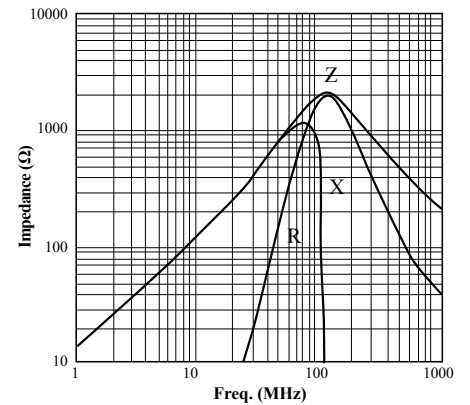
MZ1608102YL□



MG1608152YL□



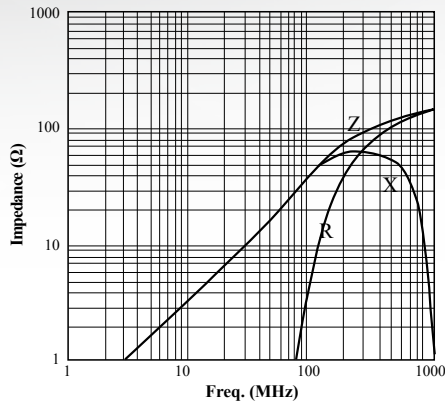
MG1608202YL□



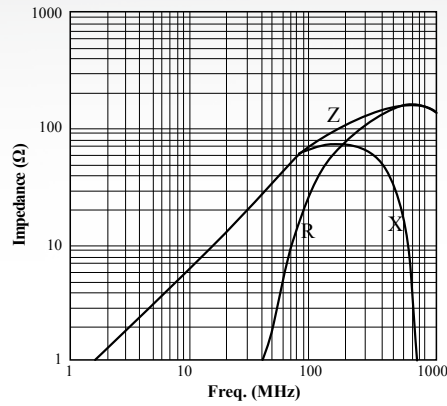
M□1608/2029-L Series

■ M□2029 Series

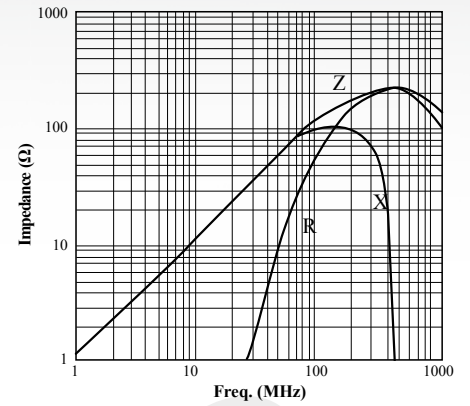
MD2029400YL□



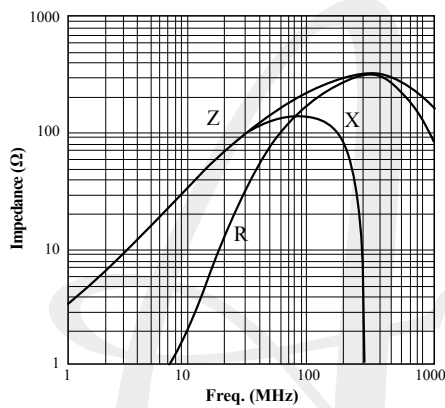
MG2029800YL□



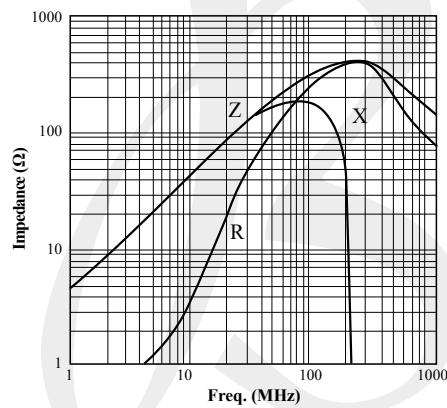
MG2029121YL□



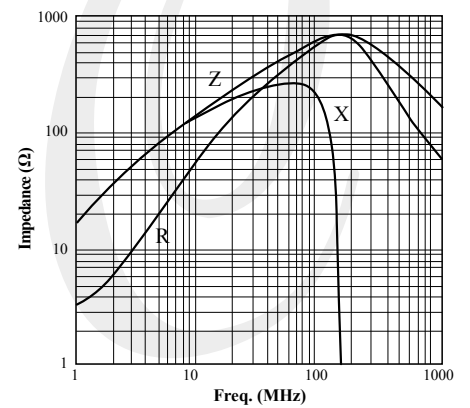
MU2029221YL□



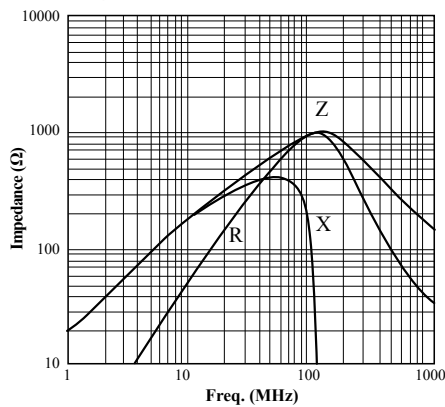
MU2029301YL□



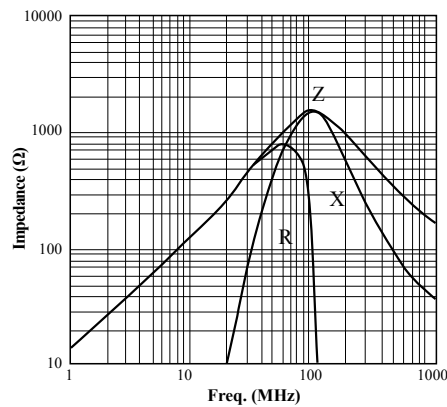
MZ2029601YL□



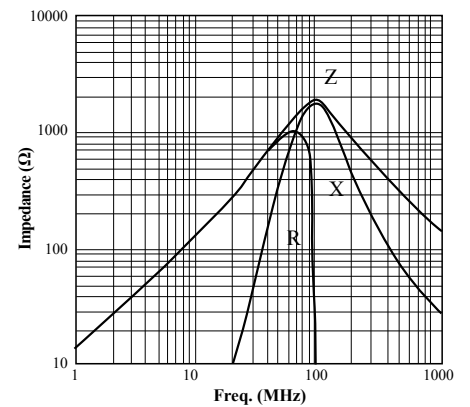
MZ2029102YL□



MG2029152YL□

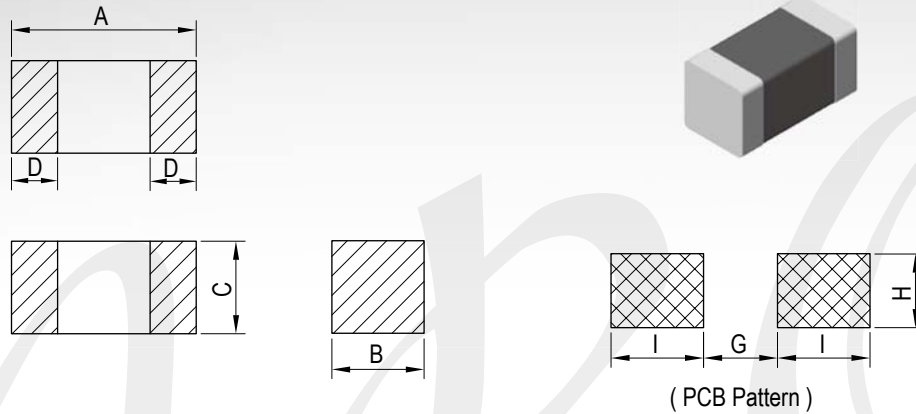


MG2029202YL□



MB1608/2029-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	G	H	I
MB1608	1.60±0.20	0.80±0.20	0.80±0.20	0.30±0.20	0.70	0.70	0.70
MB2029	2.00±0.20	1.20±0.20	0.90±0.20	0.50±0.30	0.80	1.00	1.00

DESCRIPTION

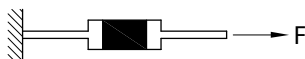
- Body: Ferrite
- Internal conductor: Silver
- Terminal electrode: Ag / Ni / Sn
- Product weight: 5.4 (1608) / 10.0 (2029)mg (ref.)
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Monolithic structure with multilayer integration offer excellent reliability.
- Close magnetic circuit avoid crosstalk effect.
- Ni-Sn electrode with excellent heat resistance suitable for flow & reflow soldering.
- Compact size application at communication device computer peripheral & consumer products.

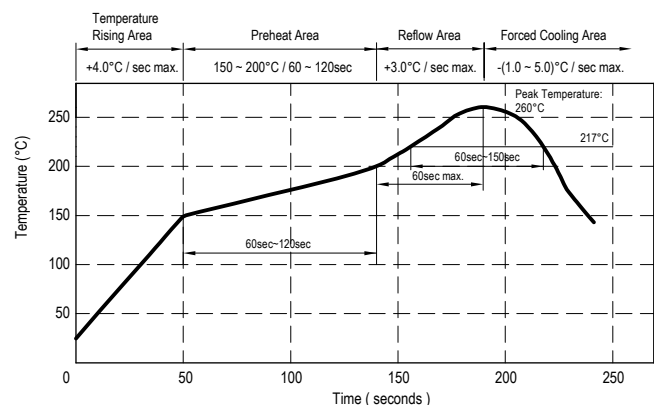
GENERAL SPECIFICATION

- Storage Conditions:
Electrical Performance temp: -55°C~ +125°C
Terminal Solderability & Packages Material temp:
-10°C~ +40°C and RH 70% max.
- Operating temp.: -55°C~ +125°C
- Terminal strength:



Type	F (kgf)	Time (sec)
MB1608	0.5	30±5
MB2029	0.6	

- Resistance to soldering heat:
Solder temp.: 260°C / Dip time: 10 sec max.
- Recommended IR Reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



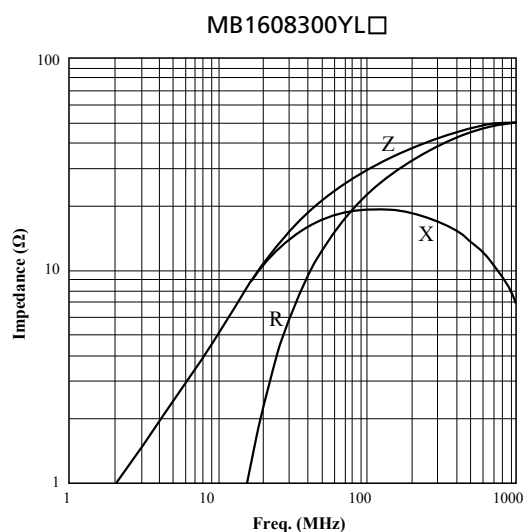
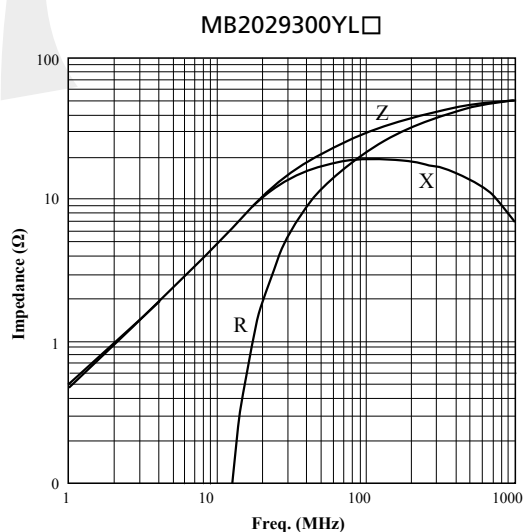
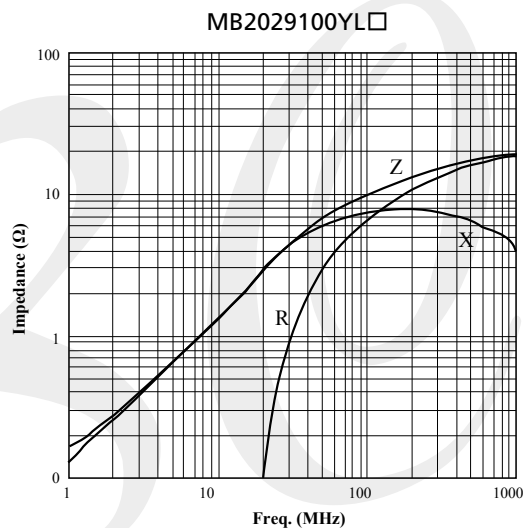
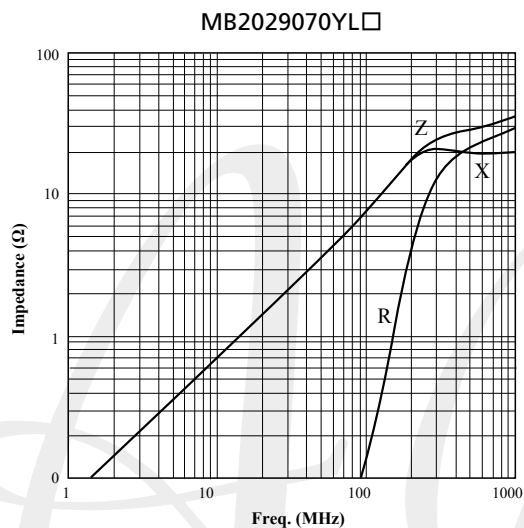
MB1608/2029-L Series

ELECTRICAL CHARACTERISTICS

DWG. No.	Impedance (Ω) at 100MHz	RDC ($m\Omega$) max.	IDC (A) max.
MB1608300YL □-□□□	30±25%	40	3.0
MB2029070YL □-□□□	7±25%	30	3.0
MB2029100YL □-□□□	10±25%	30	3.0
MB2029300YL □-□□□	30±25%	25	3.0

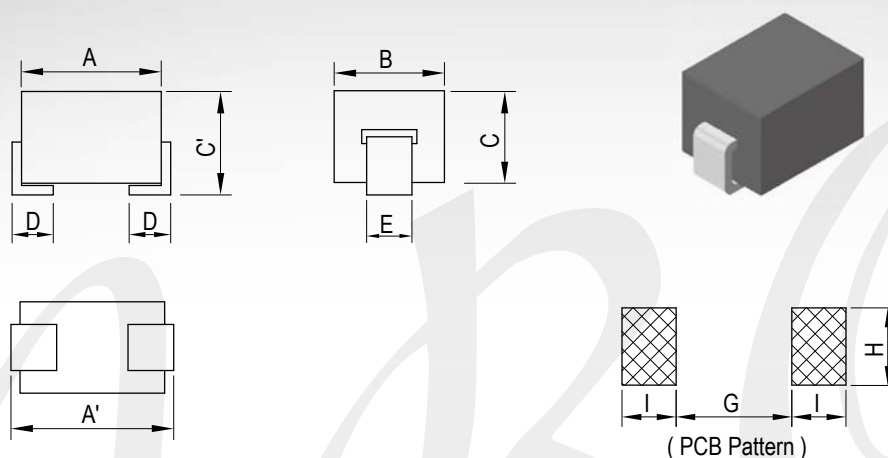
- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

CURVE



MB4030/8530-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	A'	B	C	C'	D	E	G	H	I
MB4030	4.00±0.20	4.60±0.50	3.00±0.20	2.60±0.10	2.85±0.20	1.35 typ.	1.20 typ.	1.00	1.80	3.00
MB8530	8.50±0.20	9.00±0.60	3.00±0.20	2.60±0.10	2.85±0.20	2.00 typ.	1.20 typ.	4.50	1.80	3.00

DESCRIPTION

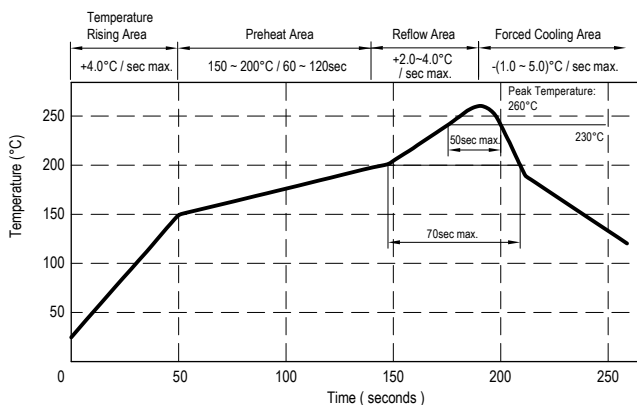
- Body: Ferrite
- Terminal: Tinned copper plate $t=0.2$ mm
- Product weight: 0.180 (4030) / 0.325 (8530)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Using surface mounting offer excellent reliability and filter the EMI from the outsiders.
- Close magnetic circuit avoid crosstalk effect.
- Ni-Sn electrode with excellent heat resistance suitable for flow & reflow soldering.
- Compact size application at communication device computer peripheral & consumer products.

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +105°C
- Resistance to Solder heat: 260°C 10 secs
- Recommended IR Reflow:
 - Peak Temp: 260°C max.
 - Max time above 230°C: 50sec max.
 - Max time above 200°C: 70sec max.



MB4030/8530-L Series

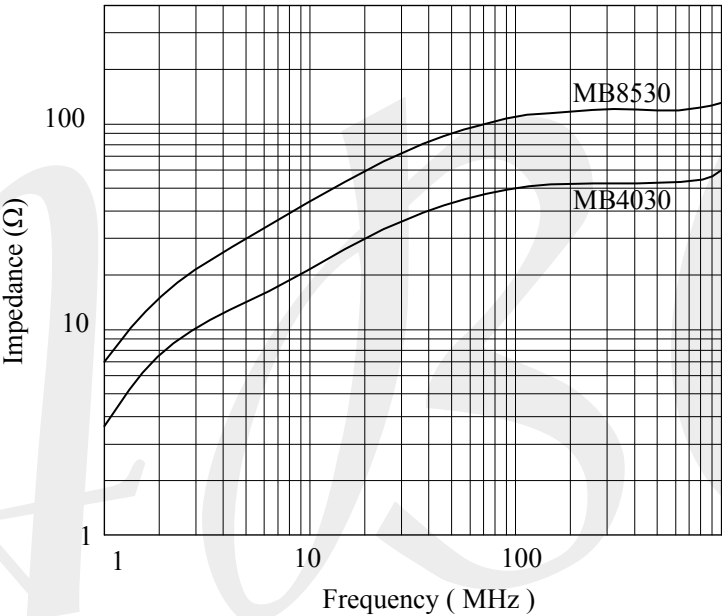
ELECTRICAL CHARACTERISTICS

DWG. No.	Z (Ω) @25MHz	Z (Ω) @100MHz	RDC (mΩ)
MB4030-L-□□□	30±20%	47±20%	6.0+0
MB8530-L-□□□	60±20%	90±20%	9.0+0

1. □ : Packaging information: □ Code
2. "- □□□": Reference code
3. Electrical specifications at 25°C
4. Rated Current:5 Amps.

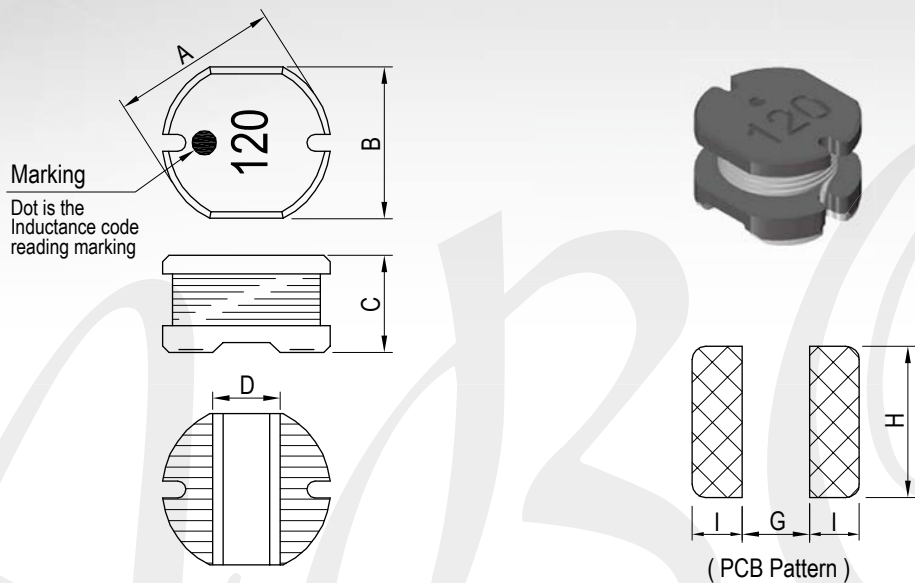
MB

CURVE



SR0302/0403/0502/0503-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	G	H	I
SR0302-L	3.20±0.30	2.80±0.30	2.50±0.30	0.90 typ.	0.80 ref.	3.00 ref.	1.40 ref.
SR0403-L	4.50±0.30	4.00±0.30	3.20±0.30	1.50 typ.	1.50 ref.	4.50 ref.	1.80 ref.
SR0502-L	5.00±0.30	4.50±0.30	2.00±0.15	2.00 ref.	1.90 ref.	5.00 ref.	1.80 ref.
SR0503-L	5.00±0.30	4.50±0.30	3.00±0.30	2.00 ref.	1.90 ref.	5.00 ref.	1.80 ref.

DESCRIPTION

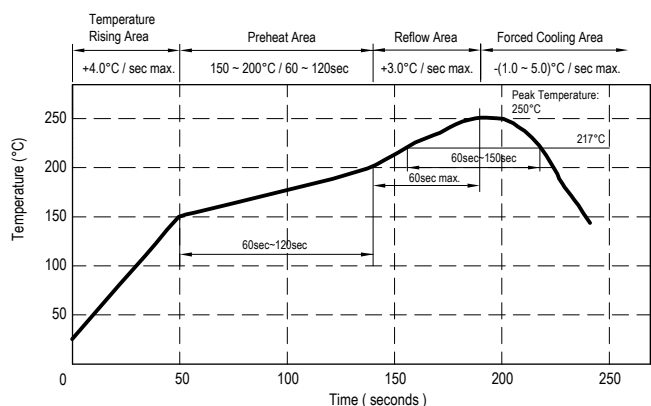
- Ferrite drum core construction
- Enamelled copper wire: F, H class (0502)
H class (0302, 0403, 0503)
- Product weight: 0.080 (0302) / 0.179 (0403) / 0.190 (0502) / 0.210 (0503)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -55°C~ +125°C (0403)
-40°C~ +125°C (0302, 0502, 0503)
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C. 10secs. (0403, 0503)
260°C. 10secs. (0302, 0502)
- Recommended IR Reflow:
Peak Temp: 250°C max. (0403, 0503)
Peak Temp: 260°C max. (0302, 0502)
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Open magnetic circuit structure higher saturation current rating.
- Patent design on glazing basis terminal with excellent terminal strength.
- Recommended for reflow soldering PCB assembly.
- Economic solution for low voltage switching regulator power circuit.



SR0302/0403/0502/0503-L Series

ELECTRICAL CHARACTERISTICS

■ SR0302-L Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) typ.	RDC (Ω) max.	I _{rms} (A) max.	I _{sat} (A) typ.
			L	Q				
SR03021R0ML□-□□□	1.0 $\pm$ 20%	20	100k/0.1V	7.960M	125.0	0.060	2.100	2.700
SR03021R2ML□-□□□	1.2 $\pm$ 20%	22	100k/0.1V	7.960M	100.0	0.070	2.000	2.500
SR03021R5ML□-□□□	1.5 $\pm$ 20%	23	100k/0.1V	7.960M	95.0	0.070	1.900	2.300
SR03021R8ML□-□□□	1.8 $\pm$ 20%	23	100k/0.1V	7.960M	85.0	0.080	1.800	2.000
SR03022R2ML□-□□□	2.2 $\pm$ 20%	22	100k/0.1V	7.960M	75.0	0.090	1.650	1.850
SR03022R7ML□-□□□	2.7 $\pm$ 20%	22	100k/0.1V	7.960M	72.0	0.100	1.500	1.700
SR03023R3ML□-□□□	3.3 $\pm$ 20%	23	100k/0.1V	7.960M	68.0	0.110	1.400	1.600
SR03023R9ML□-□□□	3.9 $\pm$ 20%	24	100k/0.1V	7.960M	50.0	0.120	1.300	1.500
SR03024R7ML□-□□□	4.7 $\pm$ 20%	18	100k/0.1V	7.960M	45.0	0.150	1.200	1.350
SR03025R6ML□-□□□	5.6 $\pm$ 20%	18	100k/0.1V	7.960M	42.0	0.160	1.100	1.300
SR03026R8ML□-□□□	6.8 $\pm$ 20%	18	100k/0.1V	7.960M	40.0	0.180	1.000	1.200
SR03028R2ML□-□□□	8.2 $\pm$ 20%	16	100k/0.1V	7.960M	35.0	0.200	0.900	1.050
SR0302100ML□-□□□	10.0 $\pm$ 20%	18	100k/0.1V	2.520M	34.0	0.250	0.800	0.900
SR0302120ML□-□□□	12.0 $\pm$ 20%	15	100k/0.1V	2.520M	33.0	0.280	0.750	0.850
SR0302150ML□-□□□	15.0 $\pm$ 20%	20	100k/0.1V	2.520M	32.0	0.400	0.650	0.800
SR0302180ML□-□□□	18.0 $\pm$ 20%	18	100k/0.1V	2.520M	28.0	0.460	0.580	0.750
SR0302220ML□-□□□	22.0 $\pm$ 20%	23	100k/0.1V	2.520M	22.0	0.660	0.520	0.650
SR0302270ML□-□□□	27.0 $\pm$ 20%	23	100k/0.1V	2.520M	20.0	0.750	0.480	0.550
SR0302330KL□-□□□	33.0 $\pm$ 10%	20	100k/0.1V	2.520M	18.0	0.850	0.420	0.500
SR0302390KL□-□□□	39.0 $\pm$ 10%	24	100k/0.1V	2.520M	18.0	1.120	0.380	0.450
SR0302470KL□-□□□	47.0 $\pm$ 10%	23	100k/0.1V	2.520M	17.0	1.270	0.360	0.400
SR0302560KL□-□□□	56.0 $\pm$ 10%	18	100k/0.1V	2.520M	16.0	1.450	0.340	0.350
SR0302680KL□-□□□	68.0 $\pm$ 10%	24	100k/0.1V	2.520M	14.0	1.850	0.300	0.320
SR0302820KL□-□□□	82.0 $\pm$ 10%	24	100k/0.1V	2.520M	12.0	2.100	0.280	0.300
SR0302101KL□-□□□	100.0 $\pm$ 10%	40	100k/0.1V	0.796M	10.0	2.850	0.260	0.280
SR0302121KL□-□□□	120.0 $\pm$ 10%	40	100k/0.1V	0.796M	10.0	3.200	0.220	0.250
SR0302151KL□-□□□	150.0 $\pm$ 10%	38	100k/0.1V	0.796M	9.0	4.600	0.200	0.230
SR0302181KL□-□□□	180.0 $\pm$ 10%	45	100k/0.1V	0.796M	8.5	5.000	0.185	0.210
SR0302221KL□-□□□	220.0 $\pm$ 10%	40	100k/0.1V	0.796M	8.0	5.700	0.170	0.190
SR0302271KL□-□□□	270.0 $\pm$ 10%	45	100k/0.1V	0.796M	7.0	8.600	0.150	0.170
SR0302331KL□-□□□	330.0 $\pm$ 10%	40	100k/0.1V	0.796M	6.0	10.000	0.130	0.150
SR0302391KL□-□□□	390.0 $\pm$ 10%	40	100k/0.1V	0.796M	5.5	10.800	0.120	0.140
SR0302471KL□-□□□	470.0 $\pm$ 10%	42	100k/0.1V	0.796M	5.0	14.300	0.105	0.130
SR0302561KL□-□□□	560.0 $\pm$ 10%	43	100k/0.1V	0.796M	4.8	16.000	0.095	0.120
SR0302681KL□-□□□	680.0 $\pm$ 10%	43	100k/0.1V	0.796M	4.3	18.000	0.085	0.110
SR0302821KL□-□□□	820.0 $\pm$ 10%	45	100k/0.1V	0.796M	4.0	22.500	0.080	0.100
SR0302102KL□-□□□	1000.0 $\pm$ 10%	40	100k/0.1V	0.252M	3.2	26.000	0.070	0.090
SR0302122KL□-□□□	1200.0 $\pm$ 10%	40	100k/0.1V	0.252M	3.0	30.000	0.060	0.080

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. Inductance Test Freq. at 100kHz / 0.1V

5. I_{sat} base on $\Delta L/L_0A=10\%$ typ.6. I_{rms} base on Temp. rise 40°C max.

SR0302/0403/0502/0503-L Series

■ SR0403-L Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		RDC (Ω) max.	IDC (A) max.
			L	Q		
SR04031R0ML□-□□□	1.0 $\pm$ 20%	28	1k/1V	7.960M	0.033	3.800
SR04031R4ML□-□□□	1.4 $\pm$ 20%	28	1k/1V	7.960M	0.038	3.300
SR04031R8ML□-□□□	1.8 $\pm$ 20%	28	1k/1V	7.960M	0.042	2.910
SR04032R2ML□-□□□	2.2 $\pm$ 20%	28	1k/1V	7.960M	0.047	2.600
SR04032R7ML□-□□□	2.7 $\pm$ 20%	28	1k/1V	7.960M	0.052	2.430
SR04033R3ML□-□□□	3.3 $\pm$ 20%	28	1k/1V	7.960M	0.058	2.150
SR04033R9ML□-□□□	3.9 $\pm$ 20%	28	1k/1V	7.960M	0.076	1.980
SR04034R7ML□-□□□	4.7 $\pm$ 20%	28	1k/1V	7.960M	0.094	1.700
SR04035R6ML□-□□□	5.6 $\pm$ 20%	28	1k/1V	7.960M	0.101	1.600
SR04036R8ML□-□□□	6.8 $\pm$ 20%	28	1k/1V	7.960M	0.117	1.410
SR04038R2ML□-□□□	8.2 $\pm$ 20%	28	1k/1V	7.960M	0.132	1.260
SR0403100ML□-□□□	10.0 $\pm$ 20%	28	1k/1V	2.520M	0.182	1.150
SR0403120ML□-□□□	12.0 $\pm$ 20%	28	1k/1V	2.520M	0.210	1.050
SR0403150ML□-□□□	15.0 $\pm$ 20%	28	1k/1V	2.520M	0.235	0.920
SR0403180ML□-□□□	18.0 $\pm$ 20%	25	1k/1V	2.520M	0.338	0.840
SR0403220ML□-□□□	22.0 $\pm$ 20%	25	1k/1V	2.520M	0.378	0.760
SR0403270ML□-□□□	27.0 $\pm$ 20%	20	1k/1V	2.520M	0.522	0.710
SR0403330KL□-□□□	33.0 $\pm$ 10%	20	1k/1V	2.520M	0.540	0.640
SR0403390KL□-□□□	39.0 $\pm$ 10%	20	1k/1V	2.520M	0.587	0.590
SR0403470KL□-□□□	47.0 $\pm$ 10%	20	1k/1V	2.520M	0.844	0.540
SR0403560KL□-□□□	56.0 $\pm$ 10%	20	1k/1V	2.520M	0.937	0.500
SR0403680KL□-□□□	68.0 $\pm$ 10%	20	1k/1V	2.520M	1.117	0.460
SR0403820KL□-□□□	82.0 $\pm$ 10%	25	1k/1V	2.520M	1.270	0.420
SR0403101KL□-□□□	100.0 $\pm$ 10%	35	1k/1V	0.796M	1.900	0.350
SR0403121KL□-□□□	120.0 $\pm$ 10%	50	1k/1V	0.796M	2.200	0.320
SR0403151KL□-□□□	150.0 $\pm$ 10%	50	1k/1V	0.796M	3.400	0.260
SR0403181KL□-□□□	180.0 $\pm$ 10%	50	1k/1V	0.796M	3.900	0.240
SR0403221KL□-□□□	220.0 $\pm$ 10%	50	1k/1V	0.796M	4.400	0.220
SR0403271KL□-□□□	270.0 $\pm$ 10%	45	1k/1V	0.796M	5.000	0.200
SR0403331KL□-□□□	330.0 $\pm$ 10%	40	1k/1V	0.796M	6.000	0.170
SR0403391KL□-□□□	390.0 $\pm$ 10%	40	1k/1V	0.796M	6.400	0.150
SR0403471KL□-□□□	470.0 $\pm$ 10%	50	1k/1V	0.796M	7.000	0.130
SR0403561KL□-□□□	560.0 $\pm$ 10%	50	1k/1V	0.796M	7.800	0.120
SR0403681KL□-□□□	680.0 $\pm$ 10%	40	1k/1V	0.796M	8.600	0.110
SR0403821KL□-□□□	820.0 $\pm$ 10%	38	1k/1V	0.796M	12.000	0.100
SR0403102KL□-□□□	1000.0 $\pm$ 10%	38	1k/1V	0.252M	14.000	0.090

1. □: Packaging information: □ Code
2. "-□□□": Reference code
3. Electrical specifications at 25°C
4. Inductance Test Freq. at 1kHz / 1V
5. IDC base on $\Delta L/L_0A=10\%$ max. & Temp. rise 40°C max.

SR0302/0403/0502/0503-L Series

■ SR0502-L Series

DWG. No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		RDC (Ω) max.	Irms (mA) max.	Isat (mA) typ.
			L	Q			
SR0502101ML□-□□□	100.0±20%	20	100k/0.1V	796k	1.5	270	265
SR0502121ML□-□□□	120.0±20%	27	100k/0.1V	796k	1.7	252	245
SR0502151ML□-□□□	150.0±20%	28	100k/0.1V	796k	2.2	237	232
SR0502181ML□-□□□	180.0±20%	25	100k/0.1V	796k	2.5	220	215
SR0502221ML□-□□□	220.0±20%	32	100k/0.1V	796k	3.2	204	200
SR0502271ML□-□□□	270.0±20%	30	100k/0.1V	796k	3.9	190	182
SR0502331ML□-□□□	330.0±20%	40	100k/0.1V	796k	5.0	174	165
SR0502391ML□-□□□	390.0±20%	40	100k/0.1V	796k	5.4	156	148
SR0502471ML□-□□□	470.0±20%	32	100k/0.1V	796k	6.5	140	130
SR0502561ML□-□□□	560.0±20%	45	100k/0.1V	796k	8.8	125	120
SR0502681ML□-□□□	680.0±20%	40	100k/0.1V	796k	10.5	110	105
SR0502821ML□-□□□	820.0±20%	35	100k/0.1V	796k	12.0	97	95
SR0502102ML□-□□□	1000.0±20%	42	100k/0.1V	252k	16.0	85	85
SR0502122ML□-□□□	1200.0±20%	44	100k/0.1V	252k	18.5	76	80
SR0502152ML□-□□□	1500.0±20%	40	100k/0.1V	252k	22.0	70	72
SR0502182ML□-□□□	1800.0±20%	40	100k/0.1V	252k	28.5	65	68
SR0502222ML□-□□□	2200.0±20%	40	100k/0.1V	252k	34.5	60	62
SR0502272ML□-□□□	2700.0±20%	40	100k/0.1V	252k	40.0	53	55

1. □ : Packaging information: □ Code
2. "-□□□": Reference code
3. Electrical specifications at 25°C
4. Inductance Test Freq. at 100kHz / 0.1V
5. Isat base on ΔL/L0A=10% typ.
6. Irms base on Temp. rise 20°C max.

■ SR0503-L Series

DWG. No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (Ω) max.	IDC (A) max.
			L	Q			
SR0503R50YL□-□□□	0.5±30%	28	7.960M/1V	7.960M	40.00	0.012	4.000
SR05031R0ML□-□□□	1.0±20%	28	7.960M/1V	7.960M	40.00	0.016	3.000
SR05031R2ML□-□□□	1.2±20%	28	7.960M/1V	7.960M	39.00	0.020	2.800
SR05031R8ML□-□□□	1.8±20%	28	7.960M/1V	7.960M	38.00	0.030	2.500
SR05032R7ML□-□□□	2.7±20%	28	7.960M/1V	7.960M	38.00	0.040	2.100
SR05033R3ML□-□□□	3.3±20%	25	7.960M/1V	7.960M	37.00	0.056	1.900
SR05033R9ML□-□□□	3.9±20%	25	7.960M/1V	7.960M	36.00	0.062	1.850
SR05034R7ML□-□□□	4.7±20%	25	7.960M/1V	7.960M	35.00	0.068	1.700
SR05035R6ML□-□□□	5.6±20%	25	7.960M/1V	7.960M	34.00	0.072	1.600
SR05036R8ML□-□□□	6.8±20%	25	7.960M/1V	7.960M	33.00	0.088	1.450
SR05038R2ML□-□□□	8.2±20%	20	7.960M/1V	7.960M	32.00	0.099	1.350

1. □ : Packaging information: □ Code
2. "-□□□": Reference code
3. Electrical specifications at 25°C
4. Inductance Test Freq. at 7.960M/1V (R50Y~8R2M)
5. IDC base on ΔL/L0A=10% max. & Temp. rise 40°C max.

SR0302/0403/0502/0503-L Series

■ SR0503-L Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (Ω) max.	IDC (A) max.
			L	Q			
SR0503100ML□-□□□	10.0 $\pm$ 20%	20	1k	2.520M	30.00	0.130	1.300
SR0503120ML□-□□□	12.0 $\pm$ 20%	20	1k	2.520M	29.00	0.160	1.200
SR0503150ML□-□□□	15.0 $\pm$ 20%	20	1k	2.520M	27.00	0.190	1.050
SR0503180ML□-□□□	18.0 $\pm$ 20%	20	1k	2.520M	24.00	0.210	0.950
SR0503220ML□-□□□	22.0 $\pm$ 20%	20	1k	2.520M	22.00	0.280	0.900
SR0503270ML□-□□□	27.0 $\pm$ 20%	20	1k	2.520M	20.00	0.320	0.800
SR0503330KL□-□□□	33.0 $\pm$ 10%	15	1k	2.520M	17.50	0.380	0.700
SR0503390KL□-□□□	39.0 $\pm$ 10%	15	1k	2.520M	17.00	0.420	0.650
SR0503470KL□-□□□	47.0 $\pm$ 10%	20	1k	2.520M	14.00	0.600	0.600
SR0503560KL□-□□□	56.0 $\pm$ 10%	20	1k	2.520M	13.00	0.710	0.500
SR0503680KL□-□□□	68.0 $\pm$ 10%	20	1k	2.520M	12.00	0.760	0.450
SR0503820KL□-□□□	82.0 $\pm$ 10%	15	1k	2.520M	10.00	0.880	0.420
SR0503101KL□-□□□	100.0 $\pm$ 10%	40	1k	0.796M	8.50	1.600	0.400
SR0503121KL□-□□□	120.0 $\pm$ 10%	40	1k	0.796M	8.00	1.700	0.370
SR0503151KL□-□□□	150.0 $\pm$ 10%	40	1k	0.796M	7.20	2.000	0.330
SR0503181KL□-□□□	180.0 $\pm$ 10%	40	1k	0.796M	6.90	2.300	0.300
SR0503221KL□-□□□	220.0 $\pm$ 10%	35	1k	0.796M	6.20	2.500	0.250
SR0503271KL□-□□□	270.0 $\pm$ 10%	35	1k	0.796M	5.70	2.900	0.230
SR0503331KL□-□□□	330.0 $\pm$ 10%	30	1k	0.796M	5.30	3.300	0.210
SR0503391KL□-□□□	390.0 $\pm$ 10%	30	1k	0.796M	4.90	3.700	0.190
SR0503471KL□-□□□	470.0 $\pm$ 10%	30	1k	0.796M	4.60	4.900	0.180
SR0503561KL□-□□□	560.0 $\pm$ 10%	30	1k	0.796M	4.20	5.700	0.160
SR0503681KL□-□□□	680.0 $\pm$ 10%	30	1k	0.796M	3.90	7.500	0.140
SR0503821KL□-□□□	820.0 $\pm$ 10%	40	1k	0.796M	3.30	10.000	0.120
SR0503102KL□-□□□	1000.0 $\pm$ 10%	40	1k	0.252M	3.10	11.500	0.110
SR0503122JL□-□□□	1200.0 $\pm$ 5%	40	1k	0.252M	3.00	12.000	0.063
SR0503152JL□-□□□	1500.0 $\pm$ 5%	40	1k	0.252M	2.40	13.000	0.059
SR0503182JL□-□□□	1800.0 $\pm$ 5%	40	1k	0.252M	2.20	15.000	0.055
SR0503222JL□-□□□	2200.0 $\pm$ 5%	40	1k	0.252M	2.30	22.000	0.053
SR0503272JL□-□□□	2700.0 $\pm$ 5%	40	1k	0.252M	2.10	26.000	0.050
SR0503332JL□-□□□	3300.0 $\pm$ 5%	40	1k	0.252M	1.90	38.000	0.045
SR0503392JL□-□□□	3900.0 $\pm$ 5%	40	1k	0.252M	1.50	40.000	0.042
SR0503472JL□-□□□	4700.0 $\pm$ 5%	40	1k	0.252M	1.40	48.000	0.040
SR0503562JL□-□□□	5600.0 $\pm$ 5%	40	1k	0.252M	1.30	72.000	0.038
SR0503682JL□-□□□	6800.0 $\pm$ 5%	40	1k	0.252M	1.20	80.000	0.034
SR0503822JL□-□□□	8200.0 $\pm$ 5%	40	1k	0.252M	1.00	92.000	0.030
SR0503103JL□-□□□	10000.0 $\pm$ 5%	30	1k	79.600k	0.95	110.000	0.027
SR0503123JL□-□□□	12000.0 $\pm$ 5%	30	1k	79.600k	0.85	148.000	0.025
SR0503153JL□-□□□	15000.0 $\pm$ 5%	30	1k	79.600k	0.80	168.000	0.020

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

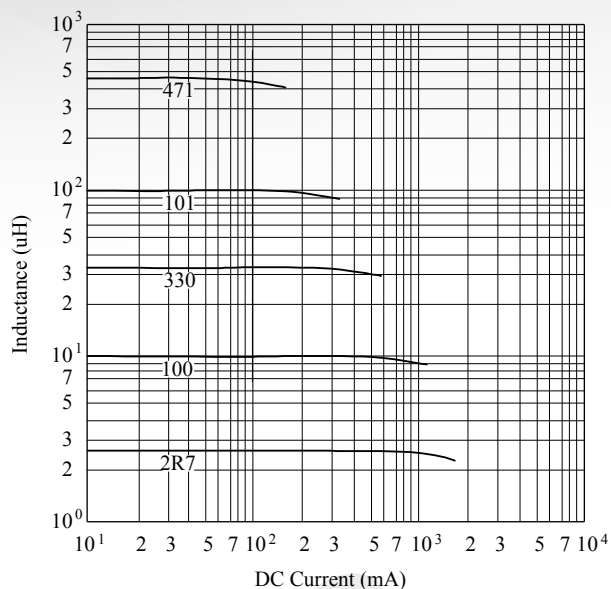
- Inductance Test Freq. at 1k/1V (100M~153J)
- IDC base on $\Delta L/L_0A=10\%$ max. & Temp. rise 40°C max.

SR0302/0403/0502/0503-L Series

CURVE

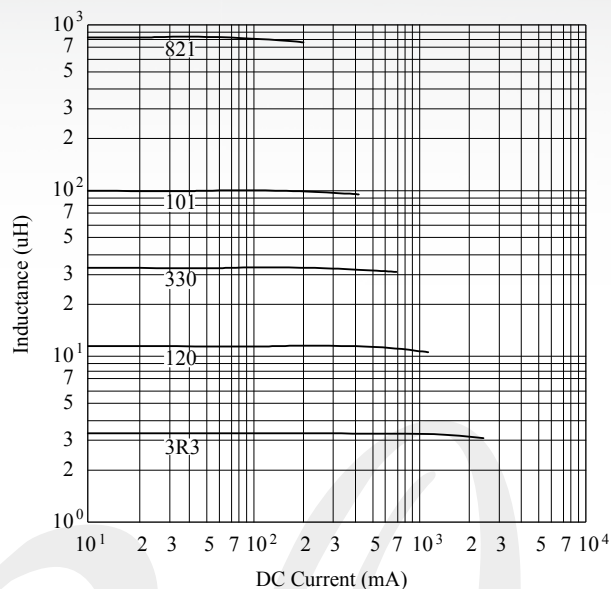
■ SR0302-L Series

@ Inductance VS. DC Current Curve



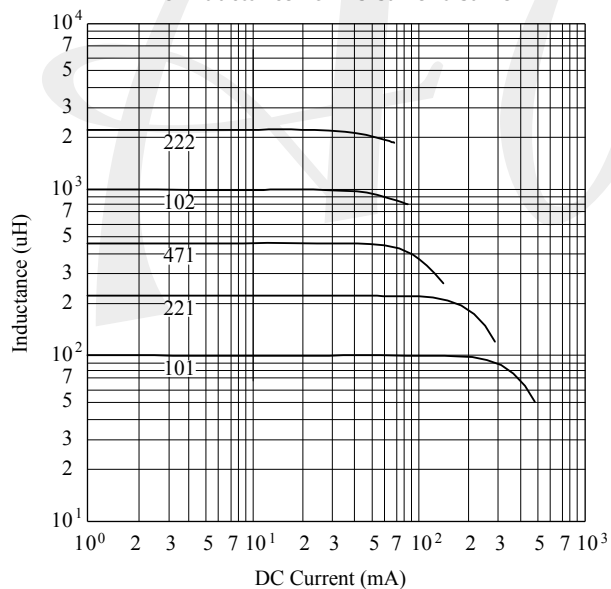
■ SR0403-L Series

@ Inductance VS. DC Current Curve



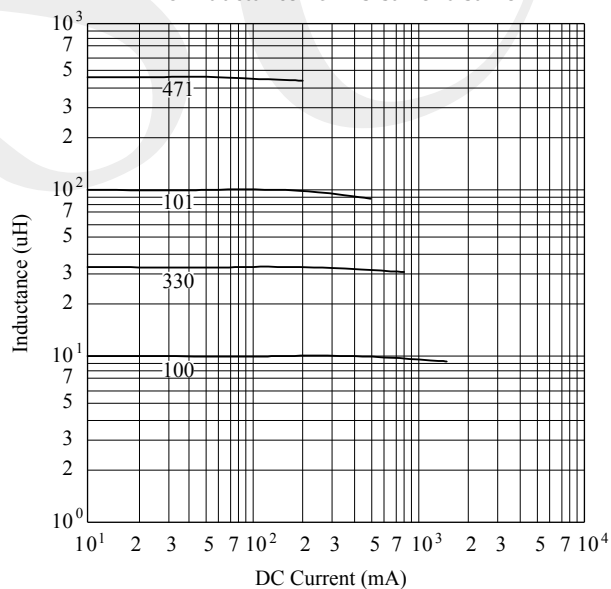
■ SR0502-L Series

@ Inductance VS. DC Current Curve



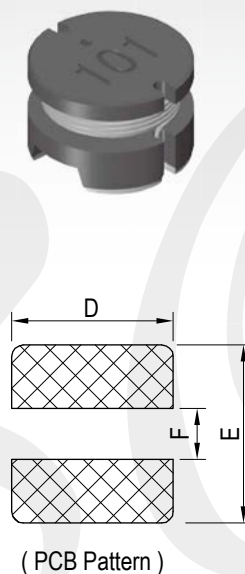
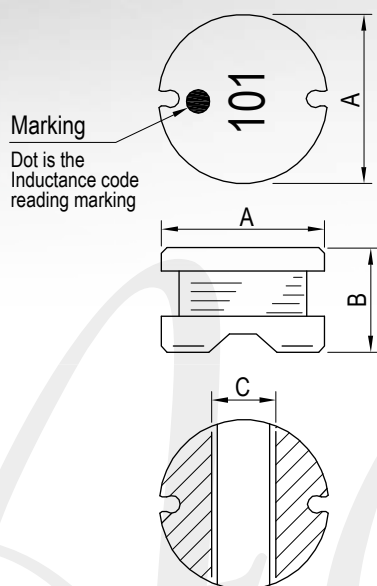
■ SR0503-L Series

@ Inductance VS. DC Current Curve



SR0602/0603-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F
SR0602-L	5.60±0.20	2.50±0.30	2.30 ref.	5.80 ref.	6.00 ref.	1.70 ref.
SR0603-L	5.60±0.20	3.70±0.30	2.30 ref.	5.80 ref.	6.00 ref.	1.70 ref.

DESCRIPTION

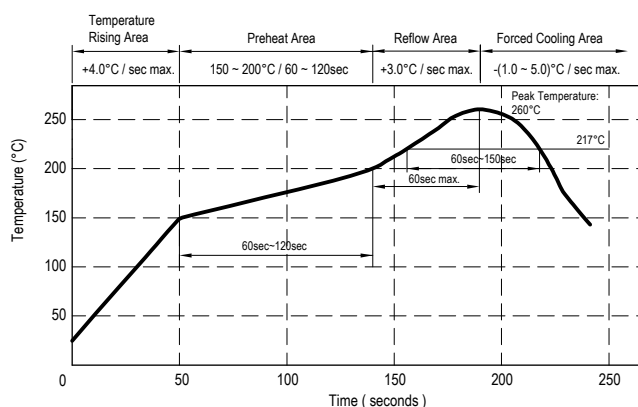
- Ferrite drum core construction.
- Enamelled copper wire: F, H class (0602)
H class (0603)
- Product weight: 0.290 (0602) / 0.350 (0603)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs. (0603)
260°C. 10secs. (0602)
- Recommended IR Reflow:
Peak Temp: 250°C max. (0603)
Peak Temp: 260°C. max. (0602)
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Open magnetic circuit structure higher saturation current rating.
- Patent design on glazing basis terminal with excellent terminal strength.
- Recommended for reflow soldering PCB assembly.
- Economic solution for low voltage switching regulator power circuit.



SR0602/0603-L Series

ELECTRICAL CHARACTERISTICS

■ SR0602-L Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (m Ω) max.	I _{rms} (A) max.	I _{sat} (A) typ.
			L	Q				
SR06021R0ML□-□□□	1.0 $\pm$ 20%	14	100k/0.1V	7.960M	90.0	30	4.50	4.60
SR06021R4ML□-□□□	1.4 $\pm$ 20%	14	100k/0.1V	7.960M	80.0	35	4.00	4.20
SR06021R8ML□-□□□	1.8 $\pm$ 20%	13	100k/0.1V	7.960M	70.0	40	3.30	3.50
SR06022R2ML□-□□□	2.2 $\pm$ 20%	13	100k/0.1V	7.960M	60.0	45	3.00	3.20
SR06022R7ML□-□□□	2.7 $\pm$ 20%	13	100k/0.1V	7.960M	55.0	50	2.80	3.00
SR06023R3ML□-□□□	3.3 $\pm$ 20%	12	100k/0.1V	7.960M	50.0	55	2.60	2.90
SR06023R9ML□-□□□	3.9 $\pm$ 20%	12	100k/0.1V	7.960M	45.0	60	2.40	2.70
SR06024R7ML□-□□□	4.7 $\pm$ 20%	11	100k/0.1V	7.960M	40.0	70	2.20	2.40
SR06025R6ML□-□□□	5.6 $\pm$ 20%	11	100k/0.1V	7.960M	36.0	85	2.00	2.30
SR06026R8ML□-□□□	6.8 $\pm$ 20%	11	100k/0.1V	7.960M	32.0	100	1.80	2.00
SR06028R2ML□-□□□	8.2 $\pm$ 20%	11	100k/0.1V	7.960M	30.0	110	1.60	1.90
SR0602100ML□-□□□	10.0 $\pm$ 20%	15	100k/0.1V	2.520M	26.0	140	1.50	1.70
SR0602120ML□-□□□	12.0 $\pm$ 20%	15	100k/0.1V	2.520M	24.0	150	1.40	1.60
SR0602150ML□-□□□	15.0 $\pm$ 20%	15	100k/0.1V	2.520M	22.0	180	1.30	1.45
SR0602180ML□-□□□	18.0 $\pm$ 20%	15	100k/0.1V	2.520M	20.0	220	1.20	1.30
SR0602220ML□-□□□	22.0 $\pm$ 20%	15	100k/0.1V	2.520M	18.0	280	1.00	1.10
SR0602270ML□-□□□	27.0 $\pm$ 20%	12	100k/0.1V	2.520M	16.0	320	0.90	1.05
SR0602330KL□-□□□	33.0 $\pm$ 10%	12	100k/0.1V	2.520M	15.0	420	0.85	1.00
SR0602390KL□-□□□	39.0 $\pm$ 10%	12	100k/0.1V	2.520M	14.0	480	0.75	0.80
SR0602470KL□-□□□	47.0 $\pm$ 10%	12	100k/0.1V	2.520M	12.0	560	0.73	0.75
SR0602560KL□-□□□	56.0 $\pm$ 10%	12	100k/0.1V	2.520M	11.0	700	0.65	0.70
SR0602680KL□-□□□	68.0 $\pm$ 10%	12	100k/0.1V	2.520M	10.0	820	0.60	0.65
SR0602820KL□-□□□	82.0 $\pm$ 10%	12	100k/0.1V	2.520M	9.5	1100	0.52	0.60
SR0602101KL□-□□□	100.0 $\pm$ 10%	22	100k/0.1V	796k	8.5	1250	0.46	0.55
SR0602121KL□-□□□	120.0 $\pm$ 10%	22	100k/0.1V	796k	8.0	1350	0.40	0.52
SR0602151KL□-□□□	150.0 $\pm$ 10%	22	100k/0.1V	796k	7.0	1650	0.36	0.46
SR0602181KL□-□□□	180.0 $\pm$ 10%	24	100k/0.1V	796k	6.5	1900	0.30	0.40
SR0602221KL□-□□□	220.0 $\pm$ 10%	24	100k/0.1V	796k	6.0	2200	0.28	0.35
SR0602271KL□-□□□	270.0 $\pm$ 10%	24	100k/0.1V	796k	5.5	3000	0.26	0.30
SR0602331KL□-□□□	330.0 $\pm$ 10%	34	100k/0.1V	796k	5.0	3800	0.20	0.25
SR0602391KL□-□□□	390.0 $\pm$ 10%	34	100k/0.1V	796k	4.5	4300	0.18	0.22
SR0602471KL□-□□□	470.0 $\pm$ 10%	36	100k/0.1V	796k	4.0	5200	0.16	0.20
SR0602561KL□-□□□	560.0 $\pm$ 10%	36	100k/0.1V	796k	3.8	6500	0.14	0.18
SR0602681KL□-□□□	680.0 $\pm$ 10%	36	100k/0.1V	796k	3.5	7500	0.13	0.16
SR0602821KL□-□□□	820.0 $\pm$ 10%	36	100k/0.1V	796k	3.0	9800	0.10	0.14
SR0602102KL□-□□□	1000.0 $\pm$ 10%	36	100k/0.1V	252k	2.6	11000	0.08	0.12

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. Inductance Test Freq. at 100kHz / 0.1V

5. I_{sat} base on $\Delta L/L_0 = 10\%$ typ.6. I_{rms} base on Temp. rise 40°C max.

SR0602/0603-L Series

■ SR0603-L Series

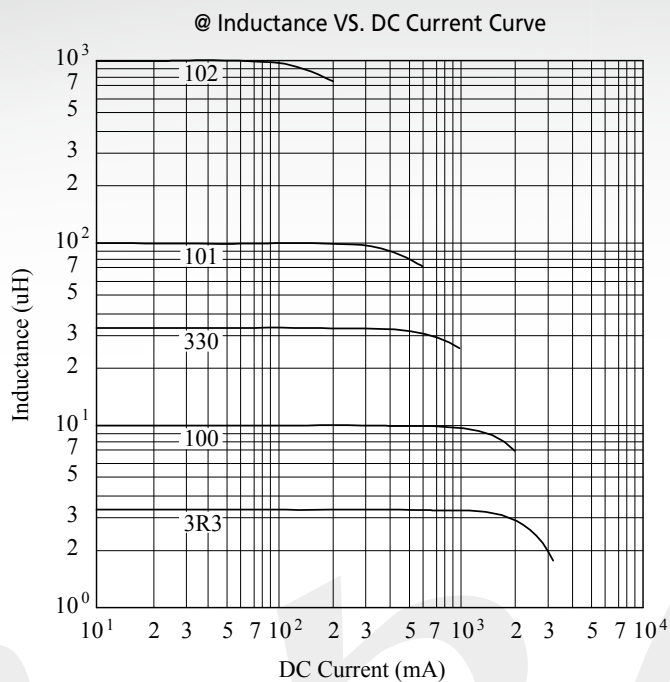
DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (Ω) max.	IDC (A) max.
			L	Q			
SR06031R5ML□-□□□	1.5 $\pm$ 20%	24	1k/1V	7.960M	85.0	0.040	3.00
SR06032R5ML□-□□□	2.5 $\pm$ 20%	21	1k/1V	7.960M	74.0	0.045	2.35
SR06033R3ML□-□□□	3.3 $\pm$ 20%	21	1k/1V	7.960M	68.0	0.048	2.20
SR06033R9ML□-□□□	3.9 $\pm$ 20%	22	1k/1V	7.960M	62.0	0.050	2.10
SR06034R7ML□-□□□	4.7 $\pm$ 20%	20	1k/1V	7.960M	56.0	0.066	1.80
SR06035R0ML□-□□□	5.0 $\pm$ 20%	19	1k/1V	7.960M	50.0	0.070	1.60
SR06036R8ML□-□□□	6.8 $\pm$ 20%	19	1k/1V	7.960M	44.0	0.110	1.38
SR06037R5ML□-□□□	7.5 $\pm$ 20%	19	1k/1V	7.960M	38.0	0.120	1.29
SR0603100ML□-□□□	10.0 $\pm$ 20%	24	1k/1V	2.520M	34.0	0.150	1.14
SR0603120ML□-□□□	12.0 $\pm$ 20%	23	1k/1V	2.520M	30.0	0.160	1.02
SR0603150ML□-□□□	15.0 $\pm$ 20%	22	1k/1V	2.520M	28.0	0.180	0.93
SR0603180ML□-□□□	18.0 $\pm$ 20%	23	1k/1V	2.520M	24.0	0.250	0.82
SR0603220ML□-□□□	22.0 $\pm$ 20%	20	1k/1V	2.520M	20.0	0.275	0.75
SR0603270ML□-□□□	27.0 $\pm$ 20%	19	1k/1V	2.520M	19.0	0.300	0.67
SR0603330KL□-□□□	33.0 $\pm$ 10%	23	1k/1V	2.520M	15.0	0.450	0.61
SR0603390KL□-□□□	39.0 $\pm$ 10%	22	1k/1V	2.520M	13.0	0.460	0.56
SR0603470KL□-□□□	47.0 $\pm$ 10%	20	1k/1V	2.520M	13.0	0.550	0.52
SR0603560KL□-□□□	56.0 $\pm$ 10%	17	1k/1V	2.520M	12.0	0.615	0.48
SR0603680KL□-□□□	68.0 $\pm$ 10%	17	1k/1V	2.520M	12.0	0.720	0.44
SR0603820KL□-□□□	82.0 $\pm$ 10%	15	1k/1V	2.520M	11.0	0.840	0.40
SR0603101KL□-□□□	100.0 $\pm$ 10%	28	1k/1V	796k	9.6	0.950	0.38
SR0603121KL□-□□□	120.0 $\pm$ 10%	27	1k/1V	796k	8.1	1.100	0.36
SR0603151KL□-□□□	150.0 $\pm$ 10%	28	1k/1V	796k	7.5	1.430	0.32
SR0603181KL□-□□□	180.0 $\pm$ 10%	26	1k/1V	796k	6.9	1.600	0.30
SR0603221KL□-□□□	220.0 $\pm$ 10%	26	1k/1V	796k	5.5	2.000	0.26
SR0603271KL□-□□□	270.0 $\pm$ 10%	26	1k/1V	796k	4.9	2.400	0.24
SR0603331KL□-□□□	330.0 $\pm$ 10%	28	1k/1V	796k	4.7	3.200	0.20
SR0603391KL□-□□□	390.0 $\pm$ 10%	28	1k/1V	796k	4.1	3.400	0.18
SR0603471KL□-□□□	470.0 $\pm$ 10%	29	1k/1V	796k	3.5	4.550	0.15

1. □ : Packaging information: □ Code
2. "-□□□": Reference code
3. Electrical specifications at 25°C
4. Inductance Test Freq. at 1kHz / 1V
5. IDC base on $\Delta L/LOA=10\%$ max. & Temp. rise 40°C max.

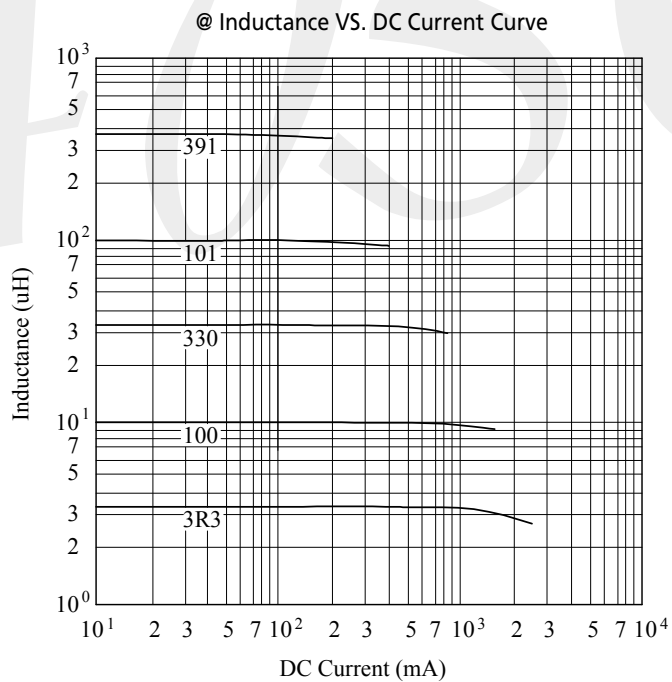
SR0602/0603-L Series

CURVE

■ SR0602-L Series

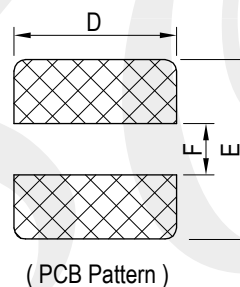
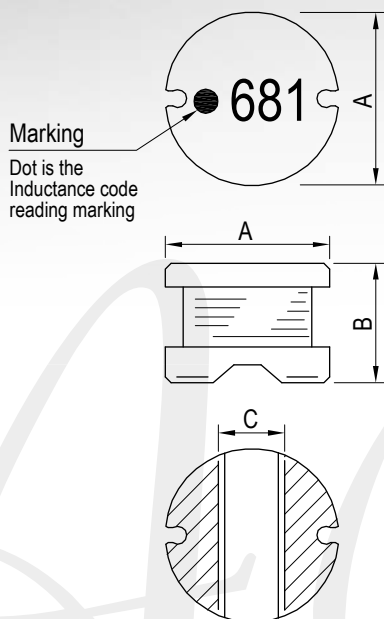


■ SR0603-L Series



SR0805/1006-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F
SR0805-L	7.50±0.30	5.00±0.30	2.60 ref.	8.00 ref.	7.80 ref.	2.40 ref.
SR1006-L	9.50±0.30	5.50±0.30	2.90 ref.	10.00 ref.	10.00 ref.	2.80 ref.

DESCRIPTION

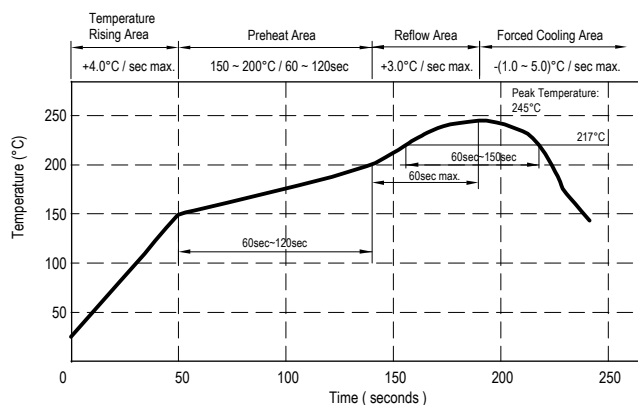
- Ferrite drum core construction.
- Enamelled copper wire: F, H class
- Product weight: 0.810 (0805) / 1.160 (1006)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs. (1006)
250°C. 10secs. (0805)
- Recommended IR Reflow:
Peak Temp: 245°C max. (1006)
Peak Temp: 250°C max. (0805)
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Open magnetic circuit structure higher saturation current rating.
- Patent design on glazing basis terminal with excellent terminal strength.
- Recommended for reflow soldering PCB assembly.
- Economic solution for low voltage switching regulator power circuit.



SR0805/1006-L Series

ELECTRICAL CHARACTERISTICS

■ SR0805-L Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (Ω) max.	Isat (A) typ.	I _{rms} (A) typ.
			L	Q				
SR08051R5ML□-□□□	1.5 $\pm$ 20%	32	1k/1V	7.960M	120.0	0.015	10.500	7.200
SR08052R5ML□-□□□	2.5 $\pm$ 20%	32	1k/1V	7.960M	70.0	0.020	8.200	5.900
SR08053R3ML□-□□□	3.3 $\pm$ 20%	32	1k/1V	7.960M	55.0	0.022	7.300	5.600
SR08053R9ML□-□□□	3.9 $\pm$ 20%	32	1k/1V	7.960M	45.0	0.024	6.500	5.200
SR08054R7ML□-□□□	4.7 $\pm$ 20%	31	1k/1V	7.960M	38.0	0.033	6.000	4.200
SR08055R6ML□-□□□	5.6 $\pm$ 20%	31	1k/1V	7.960M	34.0	0.035	5.500	4.000
SR08056R8ML□-□□□	6.8 $\pm$ 20%	30	1k/1V	7.960M	33.0	0.040	4.800	3.600
SR08058R2ML□-□□□	8.2 $\pm$ 20%	29	1k/1V	7.960M	30.0	0.050	4.300	3.400
SR0805100ML□-□□□	10.0 $\pm$ 20%	25	1k/1V	2.520M	22.0	0.070	4.000	3.000
SR0805120ML□-□□□	12.0 $\pm$ 20%	25	1k/1V	2.520M	20.0	0.080	3.700	2.750
SR0805150ML□-□□□	15.0 $\pm$ 20%	25	1k/1V	2.520M	16.0	0.090	3.200	2.600
SR0805180ML□-□□□	18.0 $\pm$ 20%	20	1k/1V	2.520M	15.0	0.100	3.000	2.500
SR0805220ML□-□□□	22.0 $\pm$ 20%	20	1k/1V	2.520M	13.0	0.110	2.700	2.300
SR0805270ML□-□□□	27.0 $\pm$ 20%	20	1k/1V	2.520M	12.0	0.120	2.500	2.200
SR0805330KL□-□□□	33.0 $\pm$ 10%	15	1k/1V	2.520M	10.0	0.140	2.200	2.000
SR0805390KL□-□□□	39.0 $\pm$ 10%	15	1k/1V	2.520M	9.5	0.160	2.000	1.900
SR0805470KL□-□□□	47.0 $\pm$ 10%	15	1k/1V	2.520M	9.0	0.200	1.900	1.650
SR0805560KL□-□□□	56.0 $\pm$ 10%	15	1k/1V	2.520M	8.5	0.240	1.700	1.500
SR0805680KL□-□□□	68.0 $\pm$ 10%	15	1k/1V	2.520M	8.0	0.300	1.500	1.350
SR0805820KL□-□□□	82.0 $\pm$ 10%	12	1k/1V	2.520M	7.0	0.370	1.400	1.250
SR0805101KL□-□□□	100.0 $\pm$ 10%	12	1k/1V	0.796M	6.5	0.450	1.250	1.050
SR0805121KL□-□□□	120.0 $\pm$ 10%	12	1k/1V	0.796M	5.6	0.480	1.150	1.000
SR0805151KL□-□□□	150.0 $\pm$ 10%	12	1k/1V	0.796M	5.5	0.680	1.000	0.850
SR0805181KL□-□□□	180.0 $\pm$ 10%	12	1k/1V	0.796M	5.0	0.770	0.900	0.700
SR0805221KL□-□□□	220.0 $\pm$ 10%	12	1k/1V	0.796M	4.8	0.960	0.850	0.630
SR0805271KL□-□□□	270.0 $\pm$ 10%	12	1k/1V	0.796M	4.5	1.110	0.750	0.600
SR0805331KL□-□□□	330.0 $\pm$ 10%	12	1k/1V	0.796M	4.3	1.260	0.700	0.560
SR0805391KL□-□□□	390.0 $\pm$ 10%	12	1k/1V	0.796M	4.0	1.770	0.650	0.500
SR0805471KL□-□□□	470.0 $\pm$ 10%	12	1k/1V	0.796M	3.8	1.960	0.600	0.480
SR0805561KL□-□□□	560.0 $\pm$ 10%	30	1k/1V	0.796M	3.7	2.500	0.550	0.420
SR0805681KL□-□□□	680.0 $\pm$ 10%	29	1k/1V	0.796M	3.5	2.800	0.480	0.380
SR0805821KL□-□□□	820.0 $\pm$ 10%	28	1k/1V	0.796M	3.2	4.000	0.450	0.320
SR0805102KL□-□□□	1000.0 $\pm$ 10%	27	1k/1V	0.252M	3.0	4.500	0.400	0.300
SR0805122KL□-□□□	1200.0 $\pm$ 10%	28	1k/1V	0.252M	2.6	6.800	0.370	0.230
SR0805152KL□-□□□	1500.0 $\pm$ 10%	27	1k/1V	0.252M	2.4	8.000	0.330	0.220
SR0805182KL□-□□□	1800.0 $\pm$ 10%	30	1k/1V	0.252M	1.6	9.200	0.300	0.210
SR0805222KL□-□□□	2200.0 $\pm$ 10%	29	1k/1V	0.252M	1.5	10.000	0.270	0.200
SR0805272KL□-□□□	2700.0 $\pm$ 10%	31	1k/1V	0.252M	1.4	11.800	0.250	0.190
SR0805332KL□-□□□	3300.0 $\pm$ 10%	28	1k/1V	0.252M	1.2	16.500	0.220	0.170
SR0805392KL□-□□□	3900.0 $\pm$ 10%	28	1k/1V	0.252M	1.1	18.000	0.210	0.160
SR0805472KL□-□□□	4700.0 $\pm$ 10%	30	1k/1V	0.252M	1.0	21.000	0.190	0.150

1. □ : Packaging information: □ Code

2. "- □ □ □" : Reference code

3. Electrical specifications at 25°C

4. Isat base on $\Delta L/L0A=10\%$ typ. (Approximately transient current)5. I_{rms} base on Temp. rise 40°C typ.

SR0805/1006-L Series

■ SR1006-L Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (Ω) max.	IDC (A) max.
			L	Q			
SR10061R5ML□-□□□	1.5 $\pm$ 20%	35	1k	7.960M	105.0	0.018	6.40
SR10062R2ML□-□□□	2.2 $\pm$ 20%	35	1k	7.960M	68.0	0.021	5.40
SR10063R3ML□-□□□	3.3 $\pm$ 20%	34	1k	7.960M	55.0	0.024	5.00
SR10063R9ML□-□□□	3.9 $\pm$ 20%	34	1k	7.960M	48.0	0.027	4.60
SR10064R7ML□-□□□	4.7 $\pm$ 20%	33	1k	7.960M	40.0	0.036	4.00
SR10065R6ML□-□□□	5.6 $\pm$ 20%	33	1k	7.960M	35.0	0.040	3.80
SR10066R8ML□-□□□	6.8 $\pm$ 20%	33	1k	7.960M	32.0	0.044	3.40
SR10068R2ML□-□□□	8.2 $\pm$ 20%	31	1k	7.960M	24.0	0.048	3.00
SR1006100ML□-□□□	10.0 $\pm$ 20%	30	1k	2.520M	21.0	0.060	2.60
SR1006120ML□-□□□	12.0 $\pm$ 20%	30	1k	2.520M	20.0	0.070	2.45
SR1006150ML□-□□□	15.0 $\pm$ 20%	30	1k	2.520M	16.0	0.080	2.25
SR1006180ML□-□□□	18.0 $\pm$ 20%	30	1k	2.520M	15.0	0.090	2.15
SR1006220ML□-□□□	22.0 $\pm$ 20%	25	1k	2.520M	13.0	0.100	1.95
SR1006270ML□-□□□	27.0 $\pm$ 20%	25	1k	2.520M	11.0	0.110	1.75
SR1006330KL□-□□□	33.0 $\pm$ 10%	25	1k	2.520M	10.0	0.120	1.50
SR1006390KL□-□□□	39.0 $\pm$ 10%	20	1k	2.520M	9.0	0.140	1.35
SR1006470KL□-□□□	47.0 $\pm$ 10%	20	1k	2.520M	8.0	0.170	1.25
SR1006560KL□-□□□	56.0 $\pm$ 10%	20	1k	2.520M	7.5	0.190	1.15
SR1006680KL□-□□□	68.0 $\pm$ 10%	15	1k	2.520M	7.0	0.220	1.10
SR1006820KL□-□□□	82.0 $\pm$ 10%	15	1k	2.520M	6.0	0.250	1.00
SR1006101KL□-□□□	100.0 $\pm$ 10%	15	1k	0.796M	5.2	0.350	0.97
SR1006121KL□-□□□	120.0 $\pm$ 10%	15	1k	0.796M	5.0	0.400	0.89
SR1006151KL□-□□□	150.0 $\pm$ 10%	15	1k	0.796M	4.5	0.470	0.78
SR1006181KL□-□□□	180.0 $\pm$ 10%	12	1k	0.796M	4.0	0.630	0.72
SR1006221KL□-□□□	220.0 $\pm$ 10%	12	1k	0.796M	3.8	0.730	0.66
SR1006271KL□-□□□	270.0 $\pm$ 10%	12	1k	0.796M	3.5	0.970	0.57
SR1006331KL□-□□□	330.0 $\pm$ 10%	12	1k	0.796M	3.2	1.150	0.52
SR1006391KL□-□□□	390.0 $\pm$ 10%	12	1k	0.796M	3.0	1.300	0.48
SR1006471KL□-□□□	470.0 $\pm$ 10%	12	1k	0.796M	2.5	1.480	0.42
SR1006561KL□-□□□	560.0 $\pm$ 10%	12	1k	0.796M	2.3	1.900	0.33
SR1006681KL□-□□□	680.0 $\pm$ 10%	12	1k	0.796M	2.1	2.250	0.28
SR1006821KL□-□□□	820.0 $\pm$ 10%	10	1k	0.796M	2.0	2.550	0.24
SR1006102KL□-□□□	1000.0 $\pm$ 10%	29	1k	0.252M	1.9	3.100	0.23
SR1006122KL□-□□□	1200.0 $\pm$ 10%	32	1k	0.252M	1.8	4.200	0.21
SR1006152KL□-□□□	1500.0 $\pm$ 10%	31	1k	0.252M	1.7	5.000	0.19
SR1006182KL□-□□□	1800.0 $\pm$ 10%	31	1k	0.252M	1.6	6.800	0.17
SR1006222KL□-□□□	2200.0 $\pm$ 10%	31	1k	0.252M	1.5	7.600	0.16
SR1006272KL□-□□□	2700.0 $\pm$ 10%	32	1k	0.252M	1.4	11.600	0.14
SR1006332KL□-□□□	3300.0 $\pm$ 10%	32	1k	0.252M	1.3	13.500	0.12
SR1006392KL□-□□□	3900.0 $\pm$ 10%	31	1k	0.252M	1.2	14.800	0.11
SR1006472KL□-□□□	4700.0 $\pm$ 10%	32	1k	0.252M	0.8	18.000	0.10

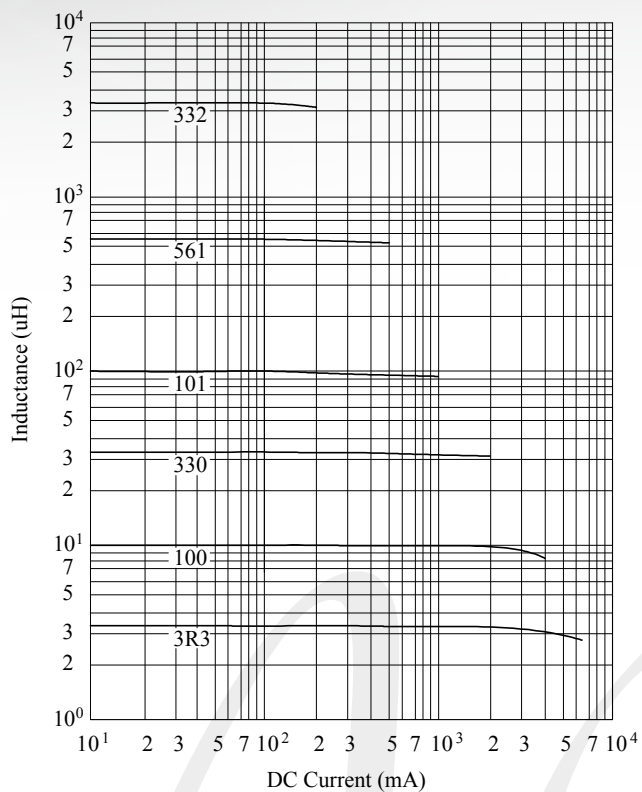
- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C
- Inductance Test Freq. at 1kHz / 1V
- IDC base on $\Delta L/L0A=10\%$ max. & Temp. rise 40°C max.

SR0805/1006-L Series

CURVE

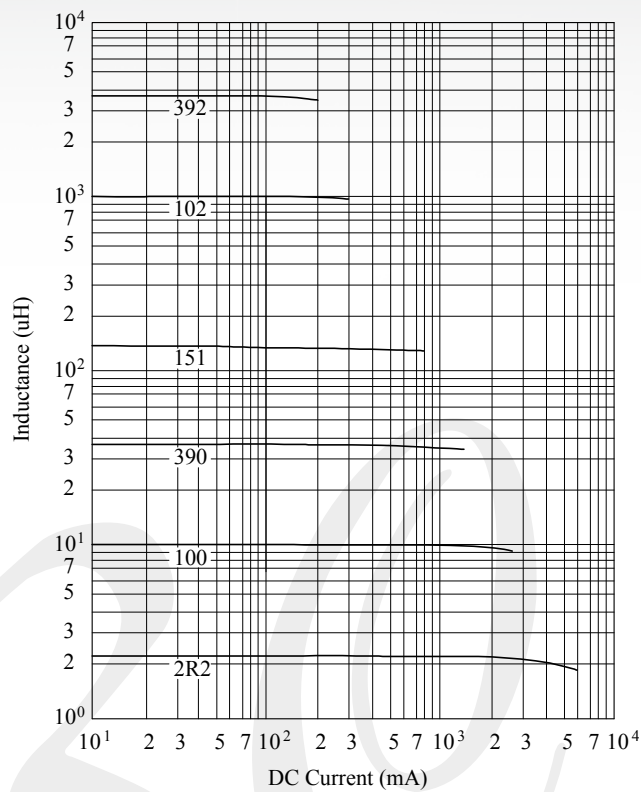
■ SR0805-L Series

@ Inductance VS. DC Current Curve



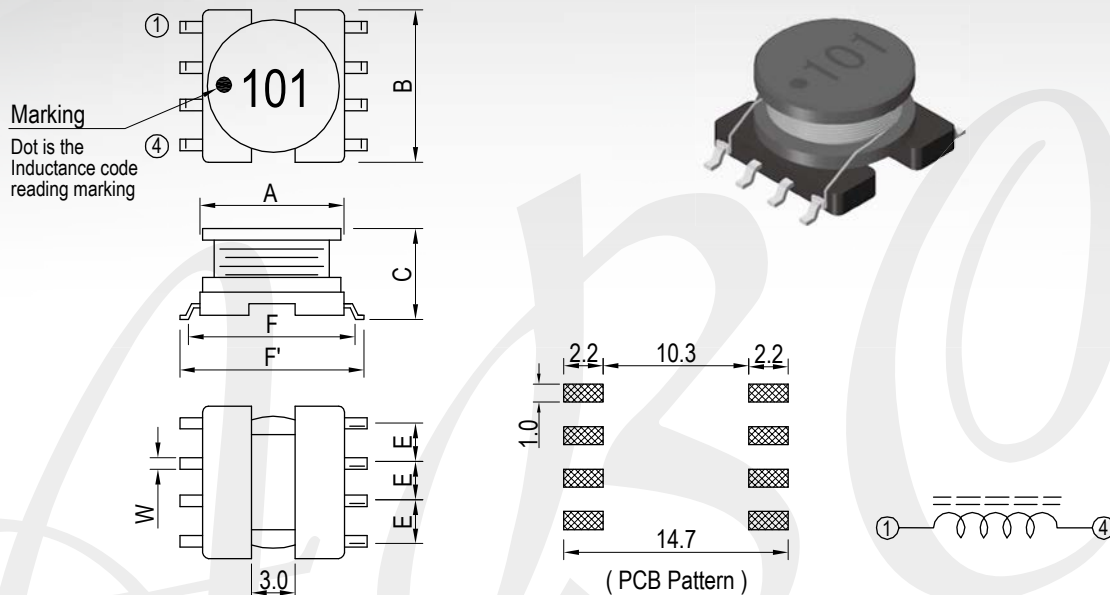
■ SR1006-L Series

@ Inductance VS. DC Current Curve



SR0906-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	E	F	F'	W
SR0906-L	9.50±0.5	10.50 max.	6.00±0.3	2.50±0.3	11.0±0.5	12.70±0.8	0.60 typ.

DESCRIPTION

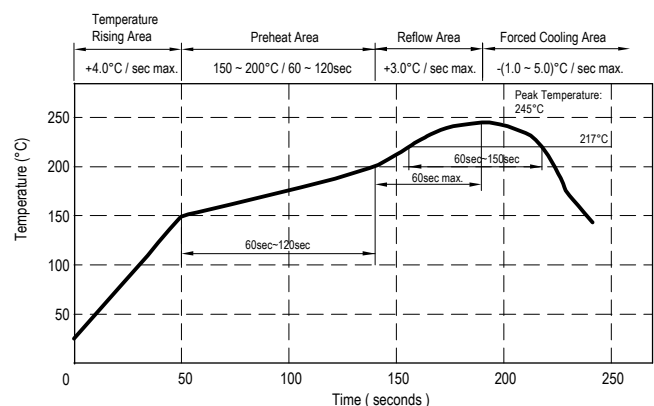
- Ferrite drum core construction.
- Enamelled copper wire: F, H class
- Product weight: 1.30g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Open magnetic circuit structure
- Plastic base with gull wing terminals suitable for thin wire winding.
- Recommended for reflow soldering PCB assembly
- Higher inductance available for RF filter & amplifier application

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 245°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



SR0906-L Series

ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (Ω) max.	IDC (A) max.
			L	Q			
SR09062R2ML□-□□□	2.2 $\pm$ 20%	30	1k	7.960M	105.0	0.032	4.00
SR09062R7ML□-□□□	2.7 $\pm$ 20%	30	1k	7.960M	84.0	0.038	3.50
SR09063R9ML□-□□□	3.9 $\pm$ 20%	28	1k	7.960M	77.0	0.043	3.30
SR09064R7ML□-□□□	4.7 $\pm$ 20%	28	1k	7.960M	55.0	0.050	3.00
SR09065R6ML□-□□□	5.6 $\pm$ 20%	28	1k	7.960M	42.0	0.055	2.80
SR09066R8ML□-□□□	6.8 $\pm$ 20%	27	1k	7.960M	36.0	0.060	2.60
SR09068R2ML□-□□□	8.2 $\pm$ 20%	27	1k	7.960M	29.0	0.065	2.40
SR0906100ML□-□□□	10.0 $\pm$ 20%	35	1k	2.520M	25.0	0.090	2.10
SR0906120ML□-□□□	12.0 $\pm$ 20%	35	1k	2.520M	23.0	0.100	2.00
SR0906150ML□-□□□	15.0 $\pm$ 20%	35	1k	2.520M	22.0	0.110	1.90
SR0906180ML□-□□□	18.0 $\pm$ 20%	35	1k	2.520M	19.0	0.120	1.80
SR0906220ML□-□□□	22.0 $\pm$ 20%	35	1k	2.520M	16.0	0.130	1.60
SR0906270KL□-□□□	27.0 $\pm$ 10%	35	1k	2.520M	15.0	0.150	1.40
SR0906330KL□-□□□	33.0 $\pm$ 10%	35	1k	2.520M	13.5	0.180	1.25
SR0906390KL□-□□□	39.0 $\pm$ 10%	25	1k	2.520M	13.0	0.190	1.15
SR0906470KL□-□□□	47.0 $\pm$ 10%	25	1k	2.520M	12.2	0.230	1.10
SR0906560KL□-□□□	56.0 $\pm$ 10%	25	1k	2.520M	12.0	0.260	1.05
SR0906680KL□-□□□	68.0 $\pm$ 10%	20	1k	2.520M	10.0	0.310	1.00
SR0906820KL□-□□□	82.0 $\pm$ 10%	20	1k	2.520M	9.2	0.330	0.95
SR0906101KL□-□□□	100.0 $\pm$ 10%	15	1k	0.796M	9.0	0.390	0.90
SR0906121KL□-□□□	120.0 $\pm$ 10%	15	1k	0.796M	8.0	0.430	0.85
SR0906151KL□-□□□	150.0 $\pm$ 10%	15	1k	0.796M	7.5	0.560	0.75
SR0906181KL□-□□□	180.0 $\pm$ 10%	15	1k	0.796M	7.0	0.640	0.70
SR0906221KL□-□□□	220.0 $\pm$ 10%	20	1k	0.796M	6.0	0.850	0.60
SR0906271KL□-□□□	270.0 $\pm$ 10%	20	1k	0.796M	5.5	1.000	0.55
SR0906331KL□-□□□	330.0 $\pm$ 10%	15	1k	0.796M	5.3	1.270	0.50
SR0906391KL□-□□□	390.0 $\pm$ 10%	15	1k	0.796M	5.0	1.400	0.45
SR0906471KL□-□□□	470.0 $\pm$ 10%	15	1k	0.796M	4.8	1.630	0.40
SR0906561KL□-□□□	560.0 $\pm$ 10%	15	1k	0.796M	4.5	2.100	0.32
SR0906681KL□-□□□	680.0 $\pm$ 10%	15	1k	0.796M	4.0	2.400	0.28
SR0906821KL□-□□□	820.0 $\pm$ 10%	15	1k	0.796M	3.5	2.750	0.24
SR0906102KL□-□□□	1000.0 $\pm$ 10%	60	1k	0.252M	2.5	3.500	0.22
SR0906122KL□-□□□	1200.0 $\pm$ 10%	60	1k	0.252M	2.0	4.000	0.20
SR0906152KL□-□□□	1500.0 $\pm$ 10%	70	1k	0.252M	2.0	5.000	0.18
SR0906182KL□-□□□	1800.0 $\pm$ 10%	60	1k	0.252M	1.9	5.800	0.17
SR0906222KL□-□□□	2200.0 $\pm$ 10%	94	1k	0.252M	1.6	8.000	0.14
SR0906272KL□-□□□	2700.0 $\pm$ 10%	90	1k	0.252M	1.3	9.000	0.13
SR0906332KL□-□□□	3300.0 $\pm$ 10%	78	1k	0.252M	1.3	10.000	0.12
SR0906392KL□-□□□	3900.0 $\pm$ 10%	96	1k	0.252M	1.2	13.500	0.10
SR0906472KL□-□□□	4700.0 $\pm$ 10%	86	1k	0.252M	1.0	15.000	0.09
SR0906562KL□-□□□	5600.0 $\pm$ 10%	100	1k	0.252M	1.0	20.000	0.07
SR0906682KL□-□□□	6800.0 $\pm$ 10%	90	1k	0.252M	0.9	23.000	0.06
SR0906822KL□-□□□	8200.0 $\pm$ 10%	100	1k	0.252M	0.8	28.000	0.05
SR0906103KL□-□□□	10000.0 $\pm$ 10%	100	1k	79.6k	0.7	33.000	0.04

1. □: Packaging information: □ Code

2. "-□□□": Reference code

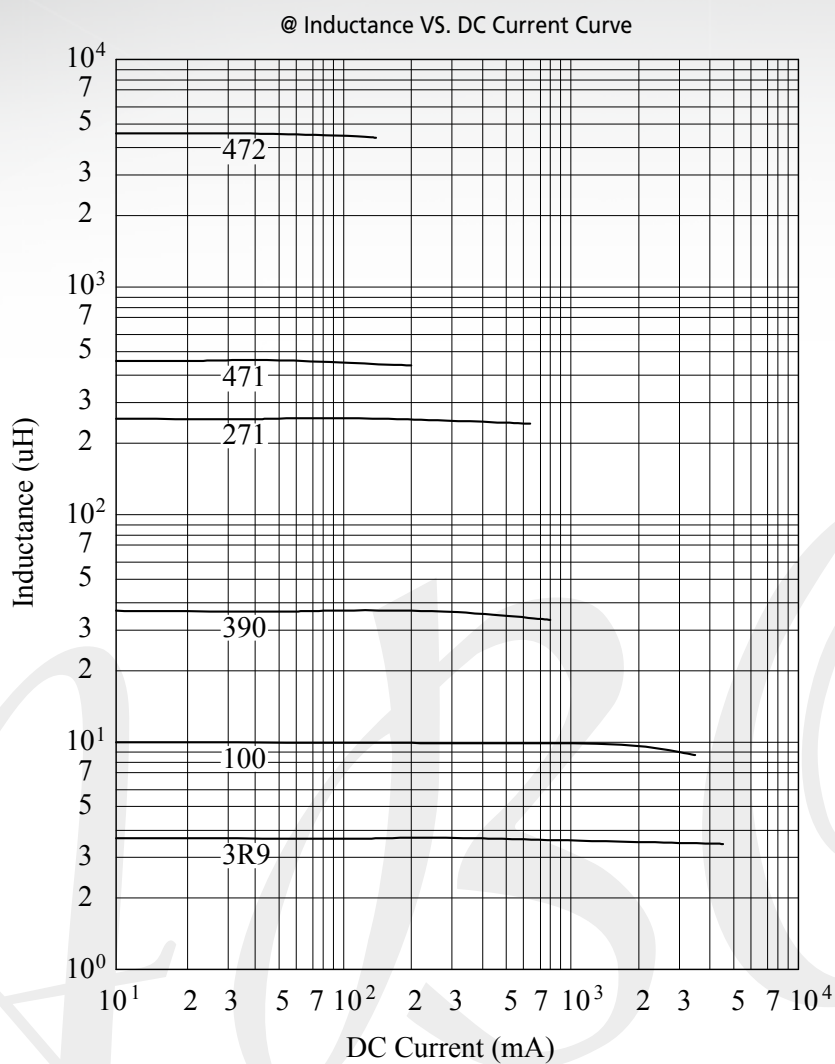
3. Electrical specifications at 25°C

4. Inductance Test Freq. at 1kHz / 1V

5. IDC base on $\Delta L/L_0$ =10% max. & Temp. rise 40°C max.

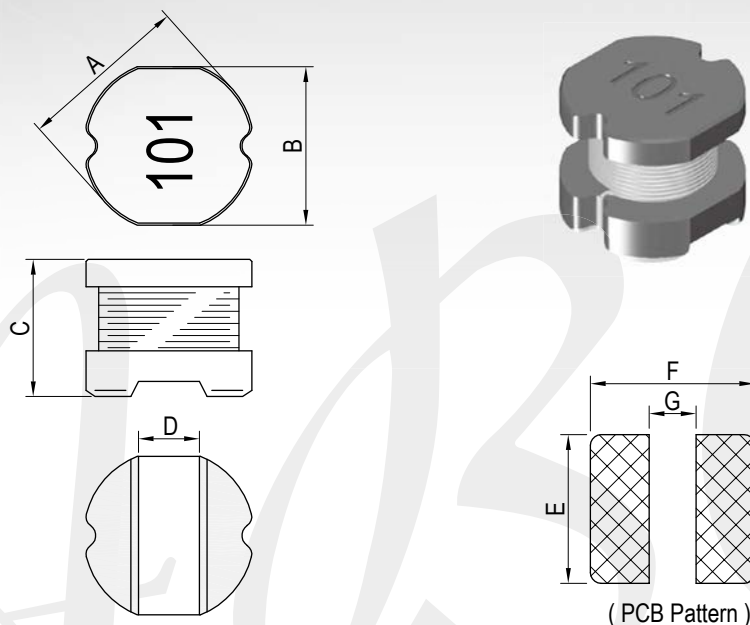
SR0906-L Series

CURVE



BR0604-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G
BR0604-L	5.60±0.20	5.20±0.20	4.50±0.30	2.30 ref.	5.80 ref.	6.00 ref.	1.70 ref.

DESCRIPTION

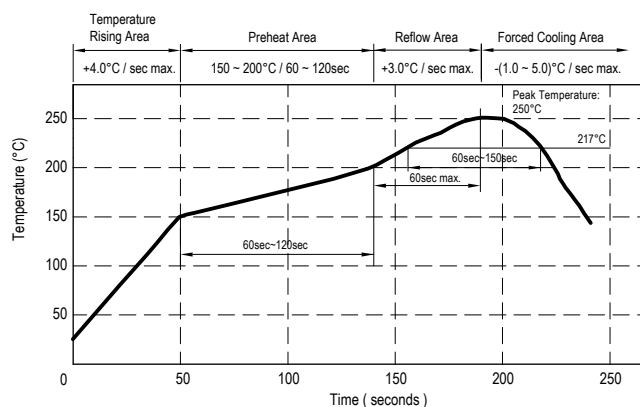
- Ferrite drum core construction
- Enamelled copper wire: H class
- Product weight: 0.36g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Open magnetic circuit structure higher saturation current rating.
- Patent design on glazing basis terminal with excellent terminal strength.
- Recommended for reflow soldering PCB assembly.
- Economic solution for low voltage switching regulator power circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



BR0604-L Series

ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	SRF (MHz) typ.	RDC (Ω)		Isat (A) typ.	Irms (A) typ.
			typ.	max.		
BR06041R2ML□-□□□	1.2 $\pm$ 20%	155.0	0.017	0.020	5.60	4.40
BR06041R5ML□-□□□	1.5 $\pm$ 20%	108.0	0.019	0.024	5.00	4.00
BR06042R2ML□-□□□	2.2 $\pm$ 20%	79.0	0.021	0.031	4.50	3.80
BR06042R7ML□-□□□	2.7 $\pm$ 20%	65.0	0.034	0.055	3.80	3.00
BR06043R3ML□-□□□	3.3 $\pm$ 20%	60.0	0.037	0.060	3.40	2.90
BR06043R9ML□-□□□	3.9 $\pm$ 20%	40.0	0.040	0.065	3.20	2.80
BR06044R7ML□-□□□	4.7 $\pm$ 20%	34.0	0.044	0.070	3.00	2.70
BR06045R6ML□-□□□	5.6 $\pm$ 20%	30.0	0.048	0.075	2.80	2.60
BR06046R8ML□-□□□	6.8 $\pm$ 20%	28.0	0.056	0.080	2.50	2.40
BR06048R2ML□-□□□	8.2 $\pm$ 20%	26.0	0.060	0.090	2.30	2.20
BR0604100ML□-□□□	10.0 $\pm$ 20%	23.0	0.074	0.100	2.10	2.10
BR0604120ML□-□□□	12.0 $\pm$ 20%	22.0	0.084	0.120	1.90	1.90
BR0604150YL□-□□□	15.0 $\pm$ 15%	20.0	0.111	0.140	1.70	1.70
BR0604180YL□-□□□	18.0 $\pm$ 15%	18.0	0.123	0.150	1.60	1.60
BR0604220YL□-□□□	22.0 $\pm$ 15%	16.0	0.159	0.190	1.40	1.40
BR0604270YL□-□□□	27.0 $\pm$ 15%	14.0	0.186	0.220	1.25	1.25
BR0604330KL□-□□□	33.0 $\pm$ 10%	13.0	0.208	0.250	1.20	1.20
BR0604390KL□-□□□	39.0 $\pm$ 10%	13.0	0.253	0.320	1.10	1.10
BR0604470KL□-□□□	47.0 $\pm$ 10%	12.0	0.320	0.370	1.00	1.00
BR0604560KL□-□□□	56.0 $\pm$ 10%	11.0	0.350	0.420	0.90	0.90
BR0604680KL□-□□□	68.0 $\pm$ 10%	10.0	0.452	0.520	0.80	0.80
BR0604820KL□-□□□	82.0 $\pm$ 10%	9.0	0.515	0.600	0.75	0.75
BR0604101KL□-□□□	100.0 $\pm$ 10%	8.5	0.588	0.700	0.70	0.70
BR0604121KL□-□□□	120.0 $\pm$ 10%	6.6	0.797	0.930	0.62	0.62
BR0604151KL□-□□□	150.0 $\pm$ 10%	6.2	0.916	1.100	0.57	0.57
BR0604181KL□-□□□	180.0 $\pm$ 10%	6.0	1.028	1.380	0.53	0.53
BR0604221KL□-□□□	220.0 $\pm$ 10%	5.6	1.193	1.570	0.48	0.48
BR0604271KL□-□□□	270.0 $\pm$ 10%	3.9	1.535	1.880	0.42	0.42
BR0604331KL□-□□□	330.0 $\pm$ 10%	3.3	1.911	2.250	0.38	0.40
BR0604391KL□-□□□	390.0 $\pm$ 10%	3.1	2.111	2.480	0.35	0.38
BR0604471KL□-□□□	470.0 $\pm$ 10%	2.9	2.775	3.300	0.30	0.33
BR0604561KL□-□□□	560.0 $\pm$ 10%	2.5	3.401	4.000	0.28	0.30
BR0604681KL□-□□□	680.0 $\pm$ 10%	2.3	3.883	4.650	0.26	0.26
BR0604821KL□-□□□	820.0 $\pm$ 10%	2.0	4.500	5.200	0.24	0.24

1. □ : Packaging information: □ Code

2. "-□□□": Reference code

3. Electrical specifications at 25°C

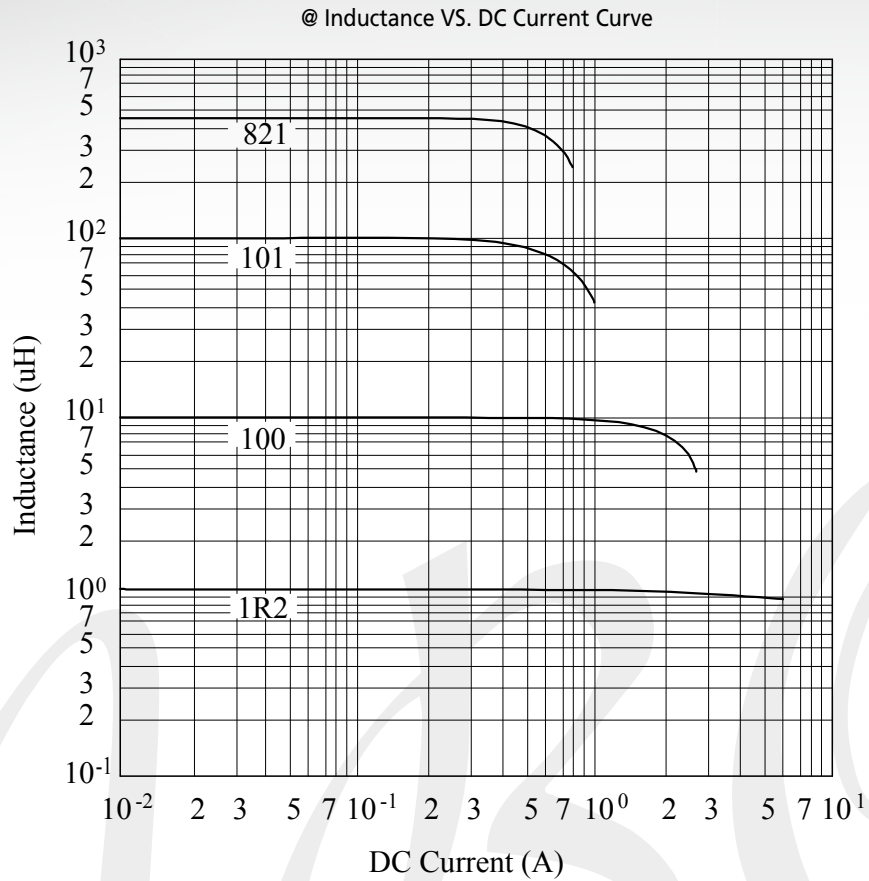
4. Inductance Test Condition.: 1kHz / 1V

5. Isat base on $\Delta L/L_0 A=10\%$ typ.

6. Irms base on Temp. rise 40°C typ.

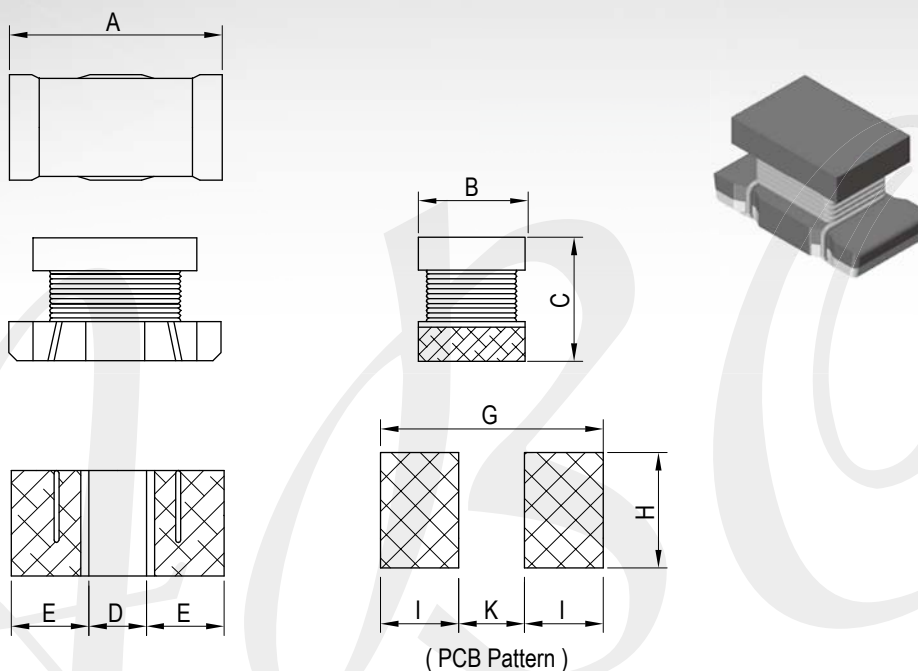
BR0604-L Series

CURVE



SQ3216-3 Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	G	H	I	K
SQ3216-3	3.20±0.30	1.60±0.30	1.85±0.30	1.10 typ.	0.90 min.	3.80 ref.	2.00 ref.	1.50 ref.	0.80 ref.

DESCRIPTION

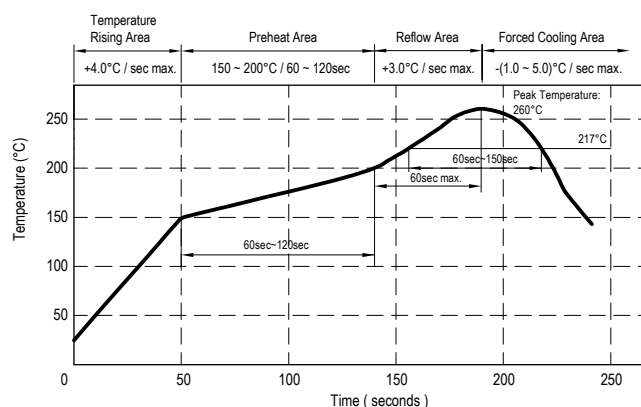
- Ferrite drum core construction
- Enamelled copper wire: F class
- Product weight: 0.032g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Open magnetic circuit structure.
- Wire directly wrap onto rectangle ferrite bobbin offer higher power density in miniature size.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for RF filter & amplifier circuit or low power switching regulator.

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 260°C.10 secs.
- Recommended IR Reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



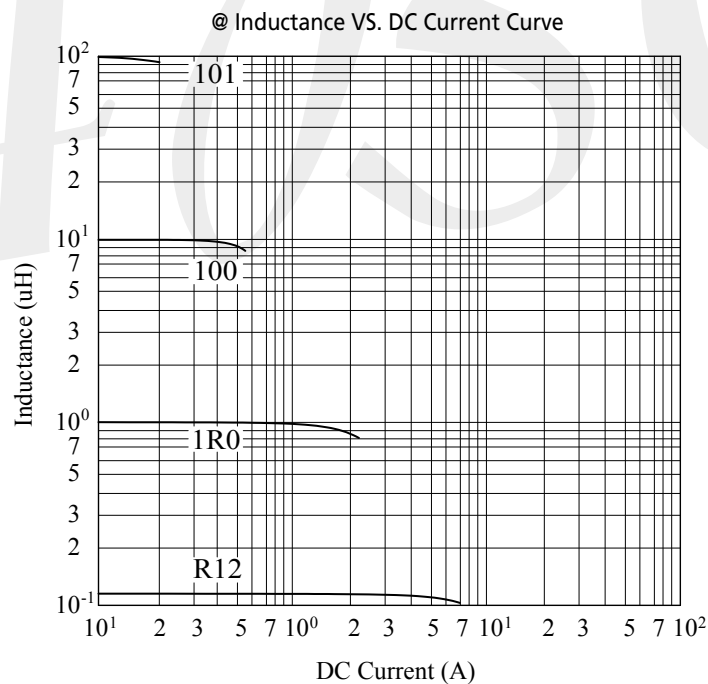
SQ3216-3 Series

ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μH)	Test Freq. (Hz) L	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
SQ3216R12M3 □-□□□	0.12±20%	1k	250	0.112	970
SQ3216R22M3 □-□□□	0.22±20%	1k	250	0.140	850
SQ3216R33M3 □-□□□	0.33±20%	1k	300	0.160	800
SQ3216R47M3 □-□□□	0.47±20%	1k	180	0.210	700
SQ3216R10M3 □-□□□	1.00±20%	1k	100	0.392	510
SQ3216R22M3 □-□□□	2.20±20%	1k	50	0.574	430
SQ3216R47M3 □-□□□	4.70±20%	1k	31	0.910	340
SQ3216100K3 □-□□□	10.00±10%	1k	20	1.820	230
SQ3216220K3 □-□□□	22.00±10%	1k	14	4.200	160
SQ3216270K3 □-□□□	27.00±10%	1k	13	4.500	150
SQ3216470K3 □-□□□	47.00±10%	1k	10	11.200	100
SQ3216101K3 □-□□□	100.00±10%	1k	7	16.800	80

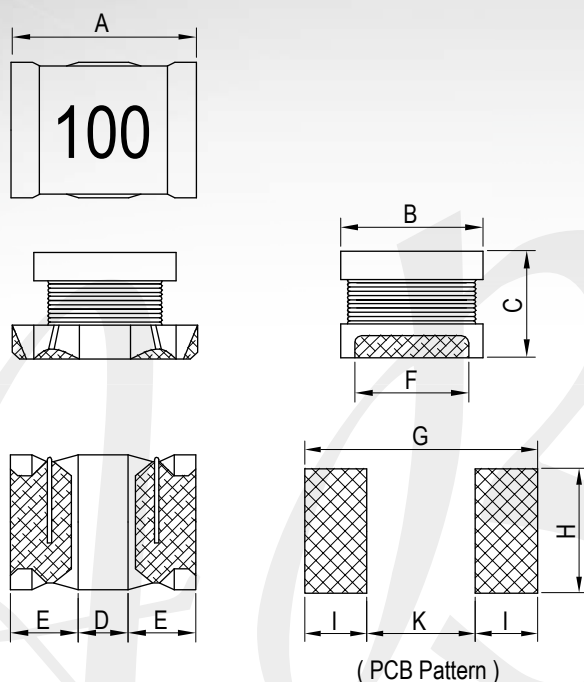
- : Packaging information: □ Code
- "- □□□": Reference code
- Electrical specifications at 25°C
- Inductance Test Freq. at 1kHz / 0.25V
- IDC base on Temp. rise 40°C max. & ΔL/L0A=10% max.

CURVE



SQ3225/4532-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I	K
SQ3225-L	3.20±0.30	2.50±0.30	2.00±0.30	1.30 typ.	1.20 ref.	1.20 ref.	3.80 ref.	2.80 ref.	1.40 ref.	1.00 ref.
SQ4532-L	4.50±0.30	3.20±0.30	2.60±0.30	1.30 typ.	1.60 ref.	2.00 ref.	5.40 ref.	3.60 ref.	2.00 ref.	1.40 ref.

DESCRIPTION

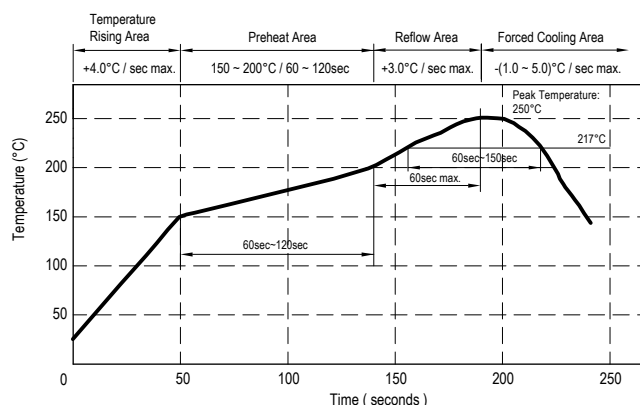
- Ferrite drum core construction
- Enamelled copper wire: H class
- Product weight: 0.046 (3225) / 0.13 (4532)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 260°C.10 secs. (3225)
250°C.10 secs. (4532)
- Recommended IR Reflow:
Peak Temp: 260°C max. (3225)
250°C max. (4532)
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Open magnetic circuit structure.
- Wire directly wrap onto rectangle ferrite bobbin offer higher power density in miniature size.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for RF filter & amplifier circuit or low power switching regulator.



SQ3225/4532-L Series

ELECTRICAL CHARACTERISTICS

■ SQ3225-L Series

DWG. No.	Inductance (μH)	Q ref.	Test Freq. (Hz)		SRF (MHz) min.	RDC (Ω) max.	Irms 1 (mA)max. ΔT=20°C	Irms 2 (mA)max. ΔT=40°C
			L	Q				
SQ32251R0ML□-□□□	1.00±20%	20	1M	1M	100.0	0.10	600	750
SQ32251R2ML□-□□□	1.20±20%	20	1M	1M	100.0	0.12	580	720
SQ32251R5ML□-□□□	1.50±20%	20	1M	1M	75.0	0.13	560	660
SQ32251R8ML□-□□□	1.80±20%	20	1M	1M	60.0	0.14	520	640
SQ32252R2ML□-□□□	2.20±20%	20	1M	1M	50.0	0.15	480	620
SQ32252R7ML□-□□□	2.70±20%	20	1M	1M	43.0	0.18	430	600
SQ32253R3ML□-□□□	3.30±20%	20	1M	1M	38.0	0.20	400	580
SQ32253R9ML□-□□□	3.90±20%	20	1M	1M	35.0	0.25	360	540
SQ32254R7ML□-□□□	4.70±20%	20	1M	1M	31.0	0.28	330	490
SQ32255R6ML□-□□□	5.60±20%	20	1M	1M	28.0	0.36	300	440
SQ32256R8ML□-□□□	6.80±20%	20	1M	1M	25.0	0.40	280	420
SQ32258R2ML□-□□□	8.20±20%	20	1M	1M	23.0	0.45	260	390
SQ3225100KL□-□□□	10.00±10%	35	1M	1M	20.0	0.65	220	320
SQ3225120KL□-□□□	12.00±10%	35	1M	1M	18.0	0.70	200	290
SQ3225150KL□-□□□	15.00±10%	35	1M	1M	16.0	1.00	180	270
SQ3225180KL□-□□□	18.00±10%	35	1M	1M	15.0	1.10	170	240
SQ3225220KL□-□□□	22.00±10%	35	1M	1M	14.0	1.30	155	220
SQ3225270KL□-□□□	27.00±10%	35	1M	1M	13.0	1.60	130	165
SQ3225330KL□-□□□	33.00±10%	40	1M	1M	12.0	1.85	120	160
SQ3225390KL□-□□□	39.00±10%	40	1M	1M	11.0	2.00	115	152
SQ3225470KL□-□□□	47.00±10%	40	1M	1M	11.0	3.00	110	146
SQ3225560KL□-□□□	56.00±10%	40	1M	1M	10.0	3.20	105	138
SQ3225680KL□-□□□	68.00±10%	35	1M	1M	9.0	3.80	96	130
SQ3225820KL□-□□□	82.00±10%	35	1M	1M	8.5	5.60	85	105
SQ3225101KL□-□□□	100.00±10%	40	1M	796k	8.0	6.50	80	100
SQ3225121KL□-□□□	120.00±10%	40	1M	796k	7.5	7.00	75	95
SQ3225151KL□-□□□	150.00±10%	40	1M	796k	7.0	9.20	70	86
SQ3225181KL□-□□□	180.00±10%	40	1M	796k	6.0	10.20	65	80
SQ3225221KL□-□□□	220.00±10%	40	1M	796k	5.5	11.80	65	75
SQ3225271KL□-□□□	270.00±10%	40	1M	796k	5.0	14.80	60	70
SQ3225331KL□-□□□	330.00±10%	40	1M	796k	5.0	16.50	55	65
SQ3225391KL□-□□□	390.00±10%	46	1M	796k	5.0	22.00	50	60
SQ3225471KL□-□□□	470.00±10%	46	1k	796k	5.0	25.00	45	55
SQ3225561KL□-□□□	560.00±10%	46	1k	796k	5.0	28.00	40	48

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C
- Inductance drop 10% max. at rated Irms

SQ3225/4532-L Series

■ SQ4532-L Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (Ω) max.	Irms 1 (mA)max. $\Delta T=20^{\circ}\text{C}$	Irms 2 (mA)max. $\Delta T=40^{\circ}\text{C}$
			L	Q				
SQ45321R0ML□-□□□	1.00 $\pm$ 20%	40	1M	1M	165.0	0.08	1400	1800
SQ45321R5ML□-□□□	1.50 $\pm$ 20%	42	1M	1M	130.0	0.09	1350	1750
SQ45321R8ML□-□□□	1.80 $\pm$ 20%	45	1M	1M	100.0	0.10	1300	1700
SQ45322R2ML□-□□□	2.20 $\pm$ 20%	40	1M	1M	80.0	0.11	1250	1600
SQ45322R7ML□-□□□	2.70 $\pm$ 20%	40	1M	1M	63.0	0.12	1200	1500
SQ45323R3ML□-□□□	3.30 $\pm$ 20%	45	1M	1M	58.0	0.13	1000	1400
SQ45323R9ML□-□□□	3.90 $\pm$ 20%	40	1M	1M	54.0	0.14	960	1320
SQ45324R7ML□-□□□	4.70 $\pm$ 20%	36	1M	1M	45.0	0.15	940	1240
SQ45325R6ML□-□□□	5.60 $\pm$ 20%	36	1M	1M	41.0	0.18	920	1180
SQ45326R8ML□-□□□	6.80 $\pm$ 20%	36	1M	1M	37.0	0.20	860	1100
SQ45328R2ML□-□□□	8.20 $\pm$ 20%	36	1M	1M	34.0	0.25	780	1000
SQ4532100ML□-□□□	10.00 $\pm$ 20%	48	1M	1M	30.0	0.30	750	950
SQ4532120ML□-□□□	12.00 $\pm$ 20%	48	1M	1M	28.0	0.42	700	800
SQ4532150ML□-□□□	15.00 $\pm$ 20%	45	1M	1M	26.0	0.50	650	730
SQ4532180ML□-□□□	18.00 $\pm$ 20%	42	1M	1M	22.0	0.60	570	680
SQ4532220KL□-□□□	22.00 $\pm$ 10%	50	1M	1M	20.0	0.70	460	630
SQ4532270KL□-□□□	27.00 $\pm$ 10%	50	1M	1M	19.0	0.90	360	520
SQ4532330KL□-□□□	33.00 $\pm$ 10%	55	1M	1M	18.0	1.10	330	430
SQ4532390KL□-□□□	39.00 $\pm$ 10%	60	1M	1M	17.0	1.30	310	410
SQ4532470KL□-□□□	47.00 $\pm$ 10%	60	1M	1M	15.0	1.50	285	390
SQ4532560KL□-□□□	56.00 $\pm$ 10%	58	1M	1M	14.0	1.60	270	385
SQ4532680KL□-□□□	68.00 $\pm$ 10%	58	1M	1M	11.0	2.10	230	330
SQ4532820KL□-□□□	82.00 $\pm$ 10%	60	1M	1M	11.0	2.20	215	300
SQ4532101KL□-□□□	100.00 $\pm$ 10%	60	1M	796k	10.0	2.50	200	270
SQ4532121KL□-□□□	120.00 $\pm$ 10%	60	1M	796k	9.0	3.00	180	240
SQ4532151KL□-□□□	150.00 $\pm$ 10%	55	1M	796k	8.5	3.70	165	220
SQ4532181KL□-□□□	180.00 $\pm$ 10%	55	1M	796k	7.0	4.50	145	200
SQ4532221KL□-□□□	220.00 $\pm$ 10%	45	1M	796k	6.3	5.40	130	185
SQ4532271KL□-□□□	270.00 $\pm$ 10%	50	1M	796k	6.0	8.00	110	140
SQ4532331KL□-□□□	330.00 $\pm$ 10%	55	1M	796k	5.8	11.5	100	120
SQ4532391KL□-□□□	390.00 $\pm$ 10%	50	1M	796k	5.2	13.00	95	110
SQ4532471KL□-□□□	470.00 $\pm$ 10%	50	1k	796k	5.0	14.20	85	105
SQ4532561KL□-□□□	560.00 $\pm$ 10%	53	1k	796k	4.5	15.50	80	100
SQ4532681KL□-□□□	680.00 $\pm$ 10%	45	1k	796k	3.5	16.80	75	90
SQ4532821KL□-□□□	820.00 $\pm$ 10%	50	1k	796k	2.8	20.00	70	85
SQ4532102KL□-□□□	1000.00 $\pm$ 10%	30	1k	252k	2.5	30.00	60	70
SQ4532122KL□-□□□	1200.00 $\pm$ 10%	30	1k	252k	2.3	33.50	45	60
SQ4532152KL□-□□□	1500.00 $\pm$ 10%	35	1k	252k	2.0	38.50	40	55
SQ4532182KL□-□□□	1800.00 $\pm$ 10%	35	1k	252k	1.8	44.00	35	50
SQ4532222KL□-□□□	2200.00 $\pm$ 10%	30	1k	252k	1.6	47.00	30	40

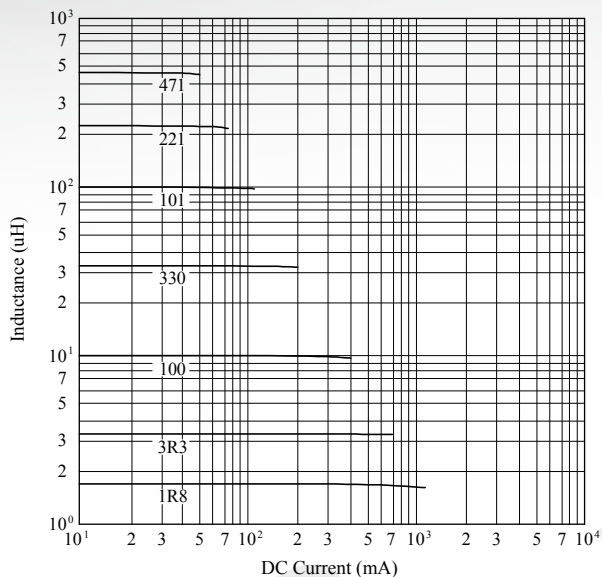
- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C
- Inductance drop 10% max. at rated Irms

SQ3225/4532-L Series

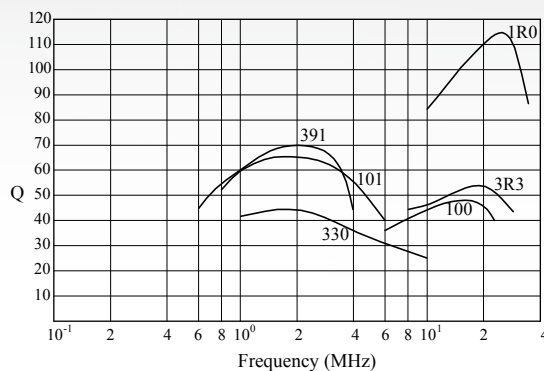
CURVE

■ SQ3225-L Series

@ Inductance VS. DC Current Curve

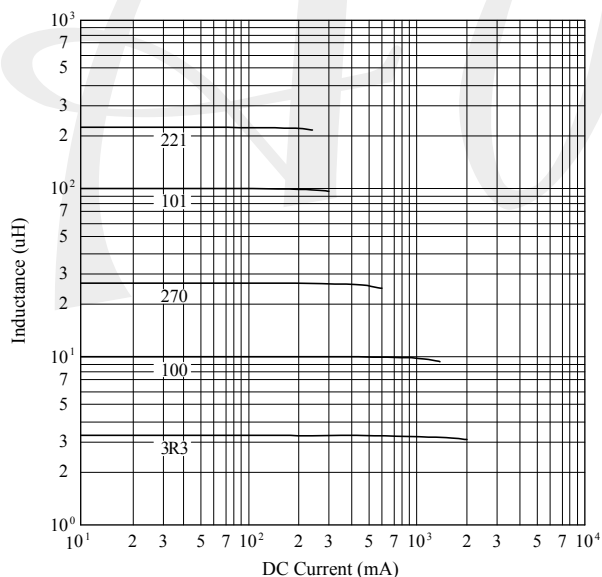


@ Q VS. Frequency Response

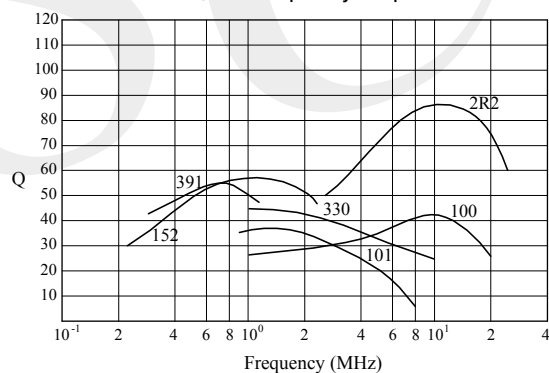


■ SQ4532-L Series

@ Inductance VS. DC Current Curve

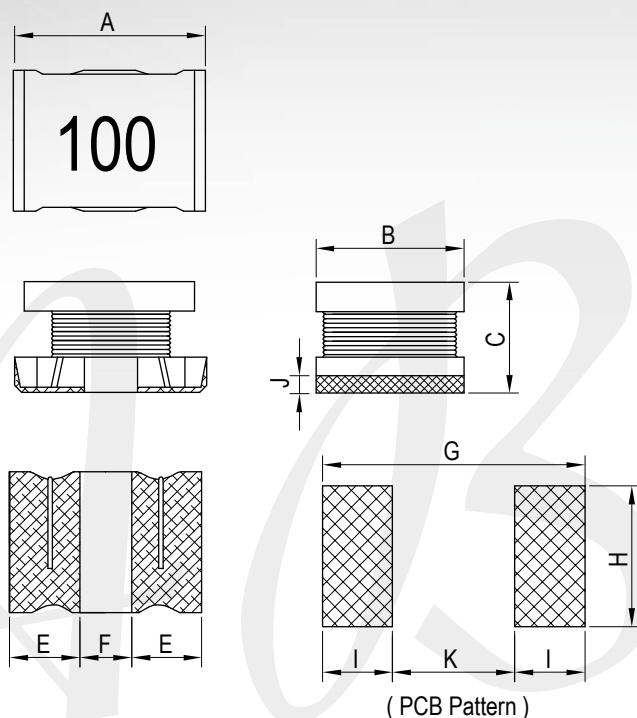


@ Q VS. Frequency Response



SQ5650-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	E	F	G	H	I	J	K
SQ5650-L	5.70±0.30	5.00±0.30	4.70±0.50	2.00 typ.	1.70 typ.	6.40 ref.	5.40 ref.	2.30 ref.	0.65 ref.	2.20 ref.

DESCRIPTION

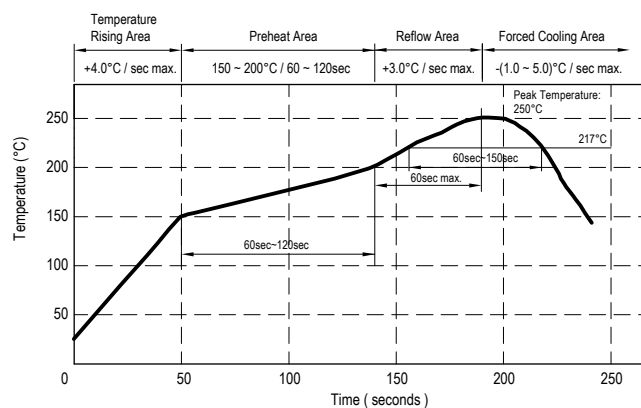
- Ferrite drum core construction
- Enamelled copper wire: H class
- Product weight: 0.50g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Open magnetic circuit structure.
- Wire directly wrap onto rectangle ferrite bobbin offer higher power density in miniature size.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for RF filter & amplifier circuit or low power switching regulator.

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



SQ5650-L Series

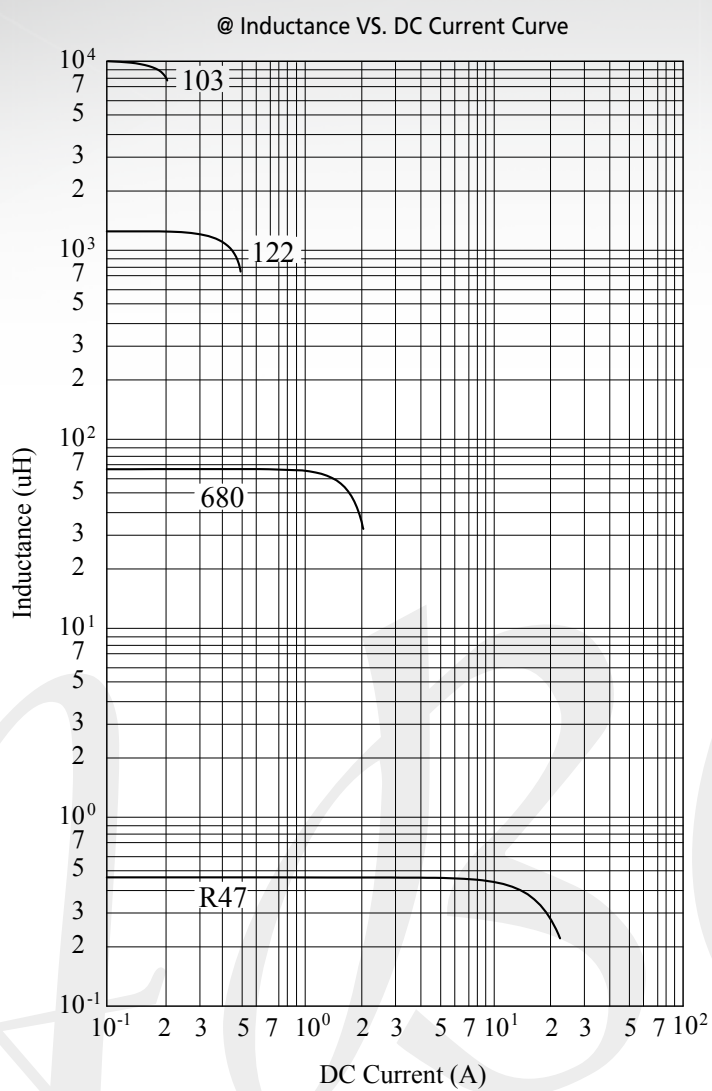
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Test Freq. (Hz) L	RDC (Ω) max.	IDC (A) max.
SQ5650R47ML□-□□□	0.47 $\pm$ 20%	100k	0.018	4.800
SQ56501R0ML□-□□□	1.00 $\pm$ 20%	100k	0.027	4.000
SQ56501R5ML□-□□□	1.50 $\pm$ 20%	100k	0.031	3.700
SQ56502R2ML□-□□□	2.20 $\pm$ 20%	100k	0.041	3.200
SQ56503R3ML□-□□□	3.30 $\pm$ 20%	100k	0.050	2.900
SQ56504R7ML□-□□□	4.70 $\pm$ 20%	100k	0.057	2.700
SQ56506R8ML□-□□□	6.80 $\pm$ 20%	100k	0.100	2.000
SQ5650100ML□-□□□	10.00 $\pm$ 20%	1k	0.130	1.700
SQ5650120KL□-□□□	12.00 $\pm$ 10%	1k	0.200	1.500
SQ5650150KL□-□□□	15.00 $\pm$ 10%	1k	0.210	1.400
SQ5650220KL□-□□□	22.00 $\pm$ 10%	1k	0.270	1.200
SQ5650240KL□-□□□	24.00 $\pm$ 10%	1k	0.290	1.100
SQ5650270KL□-□□□	27.00 $\pm$ 10%	1k	0.300	1.000
SQ5650330KL□-□□□	33.00 $\pm$ 10%	1k	0.450	0.900
SQ5650470KL□-□□□	47.00 $\pm$ 10%	1k	0.560	0.800
SQ5650680KL□-□□□	68.00 $\pm$ 10%	1k	0.940	0.640
SQ5650900KL□-□□□	90.00 $\pm$ 10%	1k	1.190	0.580
SQ5650101KL□-□□□	100.00 $\pm$ 10%	1k	1.200	0.560
SQ5650121KL□-□□□	120.00 $\pm$ 10%	1k	1.850	0.490
SQ5650151KL□-□□□	150.00 $\pm$ 10%	1k	2.660	0.420
SQ5650221KL□-□□□	220.00 $\pm$ 10%	1k	3.360	0.320
SQ5650331KL□-□□□	330.00 $\pm$ 10%	1k	6.160	0.270
SQ5650471KL□-□□□	470.00 $\pm$ 10%	1k	7.560	0.240
SQ5650681KL□-□□□	680.00 $\pm$ 10%	1k	11.300	0.190
SQ5650102KL□-□□□	1000.00 $\pm$ 10%	1k	14.400	0.150
SQ5650122KL□-□□□	1200.00 $\pm$ 10%	1k	18.000	0.120
SQ5650152KL□-□□□	1500.00 $\pm$ 10%	1k	30.100	0.100
SQ5650222KL□-□□□	2200.00 $\pm$ 10%	1k	45.000	0.090
SQ5650242KL□-□□□	2400.00 $\pm$ 10%	1k	47.000	0.085
SQ5650332KL□-□□□	3300.00 $\pm$ 10%	1k	50.000	0.080
SQ5650472KL□-□□□	4700.00 $\pm$ 10%	1k	61.000	0.070
SQ5650682KL□-□□□	6800.00 $\pm$ 10%	1k	100.000	0.060
SQ5650822KL□-□□□	8200.00 $\pm$ 10%	1k	125.000	0.050
SQ5650103KL□-□□□	10000.00 $\pm$ 10%	1k	140.000	0.050

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C
- Inductance Test Freq. at 100kHz / 1V (R47M~6R8M), 1kHz / 1V (100M~103K)
- IDC base on $\Delta L/L_0A=10\%$ max. & Temp. rise 40°C max.

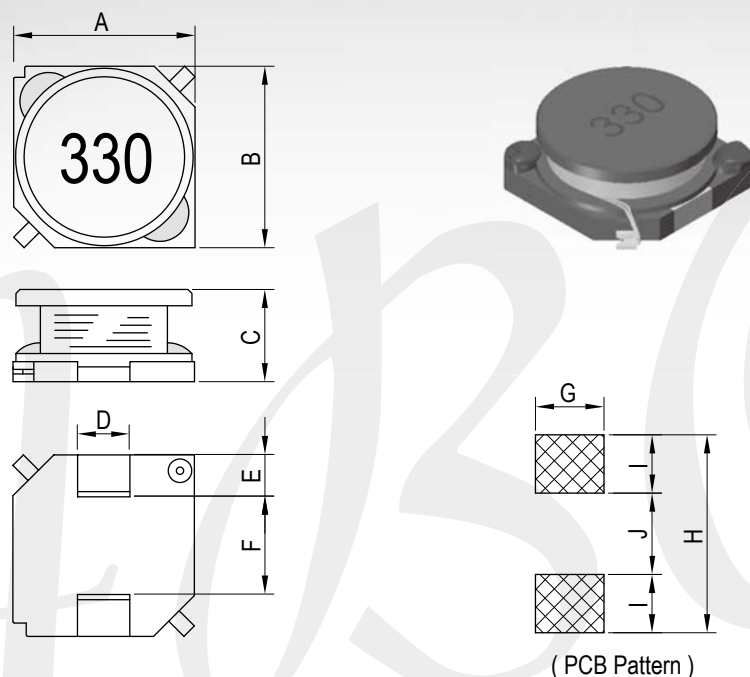
SQ5650-L Series

CURVE



SB7030/7045-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I	J
SB7030-L	7.00±0.30	7.00±0.30	3.00±0.30	2.00 typ.	1.50 typ.	4.00 typ.	2.40 ref.	7.80 ref.	1.80 ref.	4.20 ref.
SB7045-L	7.00±0.30	7.00±0.30	4.50±0.30	2.00 typ.	1.50 typ.	4.00 typ.	2.40 ref.	7.80 ref.	1.80 ref.	4.20 ref.

DESCRIPTION

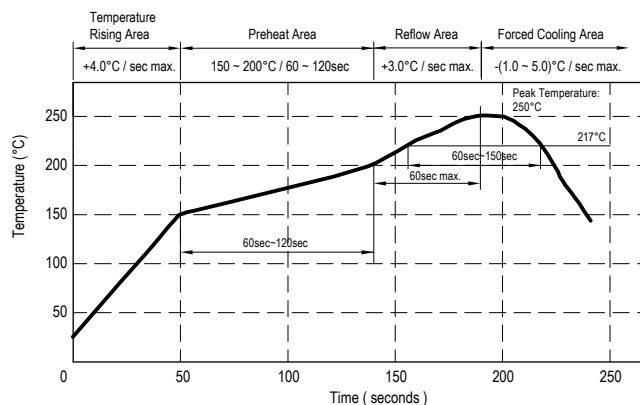
- Ferrite drum core construction
- Enamelled copper wire: F class
- Product weight: 0.44 (7030) / 0.60 (7045)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Open magnetic circuit structure.
- Plastic base with insert molding terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly.
- Higher inductance available for RF filter & amplifier application.

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



SB7030/7045-L Series

ELECTRICAL CHARACTERISTICS

■ SB7030-L Series

DWG. No.	Inductance (μH)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (Ω) max.	I _{rms} (A) max.	I _{sat} (A) typ.
SB70301R0ML□-□□□	1.0±20%	18	7.96	113	0.022	3.00	4.30
SB70301R5ML□-□□□	1.5±20%	17	7.96	100	0.027	2.75	3.60
SB70302R2ML□-□□□	2.2±20%	17	7.96	80	0.030	2.60	3.20
SB70303R5ML□-□□□	3.5±20%	17	7.96	59	0.038	2.20	2.60
SB70304R7ML□-□□□	4.7±20%	14	7.96	43	0.048	1.85	2.25
SB70306R2ML□-□□□	6.2±20%	17	7.96	41	0.058	1.65	2.00
SB7030100ML□-□□□	10.0±20%	16	2.52	35	0.075	1.50	1.60
SB7030150ML□-□□□	15.0±20%	14	2.52	33	0.115	1.20	1.30
SB7030220ML□-□□□	22.0±20%	14	2.52	32	0.160	1.02	1.10
SB7030330ML□-□□□	33.0±20%	13	2.52	24	0.230	0.85	0.90
SB7030470KL□-□□□	47.0±10%	12	2.52	18	0.340	0.70	0.78
SB7030680KL□-□□□	68.0±10%	12	2.52	16	0.480	0.58	0.64
SB7030101KL□-□□□	100.0±10%	18	0.796	15	0.720	0.46	0.52
SB7030151KL□-□□□	150.0±10%	18	0.796	12	0.920	0.40	0.42
SB7030221KL□-□□□	220.0±10%	23	0.796	9	1.600	0.32	0.34
SB7030331KL□-□□□	330.0±10%	24	0.796	7	2.200	0.26	0.28
SB7030471KL□-□□□	470.0±10%	30	0.796	6	2.800	0.22	0.23
SB7030681KL□-□□□	680.0±10%	28	0.796	5	4.350	0.18	0.18
SB7030102KL□-□□□	1000.0±10%	66	0.252	4	6.200	0.15	0.15

1. □: Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. Inductance test condition.: 100kHz / 0.1V

5. I_{rms} base on temperature rise 30°C max.6. I_{sat} base on ΔL/L0A=10% typ .

■ SB7045-L Series

DWG. No.	Inductance (μH)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (Ω) max.	I _{rms} (A) max.	I _{sat} (A) typ.
SB70451R2ML□-□□□	1.2±20%	25	7.96	90	0.022	3.80	5.00
SB70451R5ML□-□□□	1.5±20%	26	7.96	109	0.027	3.50	4.50
SB70452R2ML□-□□□	2.2±20%	24	7.96	79	0.032	3.30	4.00
SB70453R3ML□-□□□	3.3±20%	23	7.96	47	0.036	2.80	3.70
SB70454R7ML□-□□□	4.7±20%	23	7.96	38	0.042	2.60	3.40
SB70456R8ML□-□□□	6.8±20%	22	7.96	35	0.054	2.25	2.70
SB7045100ML□-□□□	10.0±20%	28	2.52	23	0.070	2.00	2.30
SB7045150ML□-□□□	15.0±20%	24	2.52	19	0.086	1.60	1.90
SB7045220ML□-□□□	22.0±20%	26	2.52	18	0.125	1.40	1.62
SB7045330ML□-□□□	33.0±20%	20	2.52	18	0.150	1.22	1.32
SB7045470KL□-□□□	47.0±10%	21	2.52	11	0.230	1.00	1.10
SB7045680KL□-□□□	68.0±10%	17	2.52	11	0.280	0.90	0.92
SB7045101KL□-□□□	100.0±10%	17	0.796	10	0.430	0.75	0.72
SB7045151KL□-□□□	150.0±10%	17	0.796	8	0.580	0.62	0.58
SB7045221KL□-□□□	220.0±10%	22	0.796	6	0.930	0.50	0.48
SB7045331KL□-□□□	330.0±10%	20	0.796	6	1.240	0.42	0.40
SB7045471KL□-□□□	470.0±10%	20	0.796	4	1.850	0.34	0.30
SB7045681KL□-□□□	680.0±10%	18	0.796	4	2.400	0.30	0.26
SB7045102KL□-□□□	1000.0±10%	48	0.252	3	4.000	0.22	0.20

1. □: Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

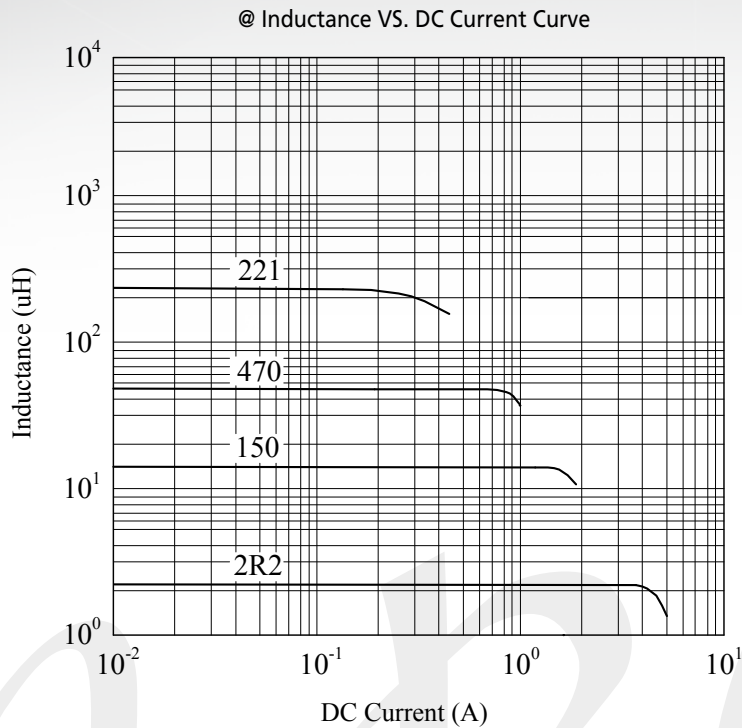
4. Inductance test condition.: 100kHz / 0.1V

5. I_{rms} base on temperature rise 40°C max.6. I_{sat} base on ΔL/L0A=10% typ .

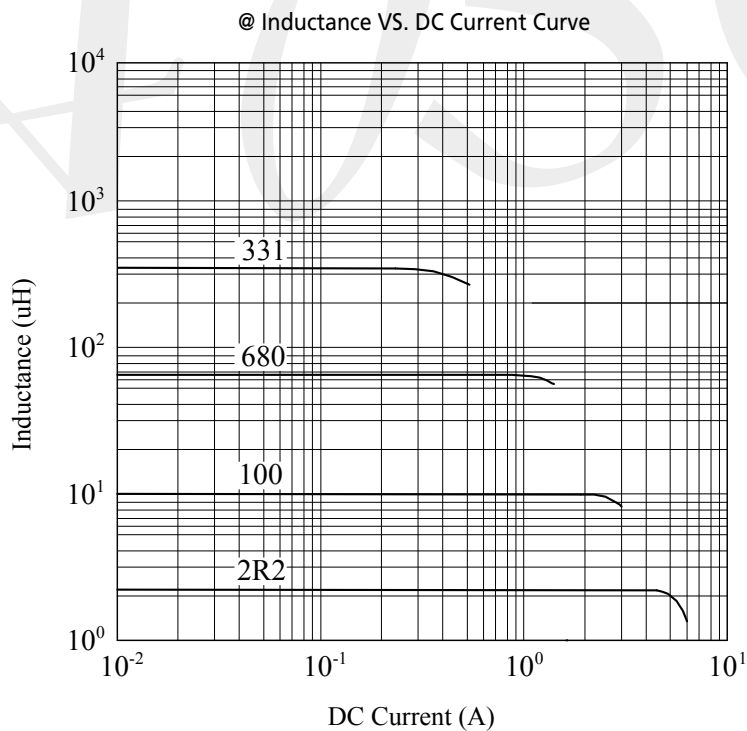
SB7030/7045-L Series

CURVE

■ SB7030-L Series

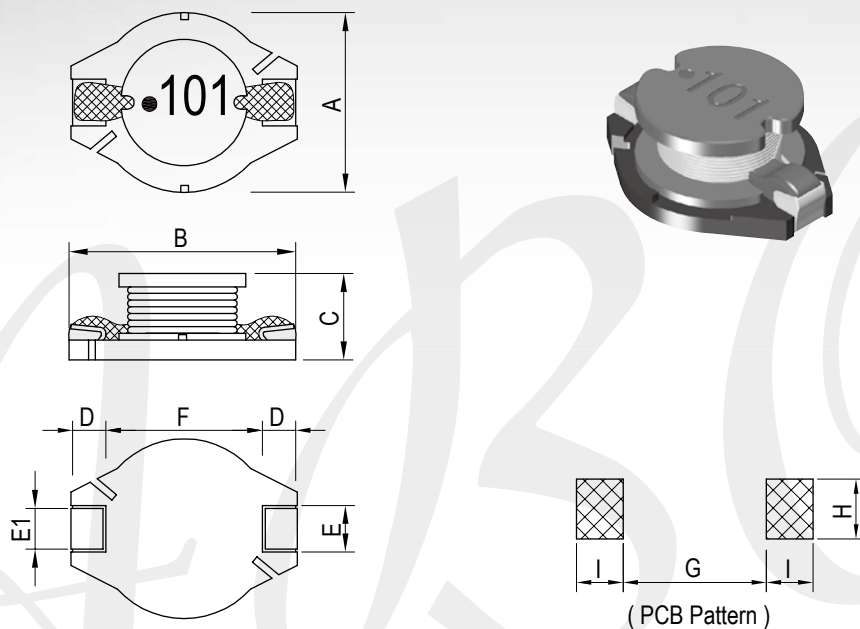


■ SB7045-L Series



SB1005-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	E1	F	G	H	I
SB1005-L	10.00±0.30	12.70±0.30	5.00±0.30	2.40±0.20	2.20±0.20	1.95±0.10	7.60±0.30	7.30 ref.	2.80 ref.	3.00 ref.

DESCRIPTION

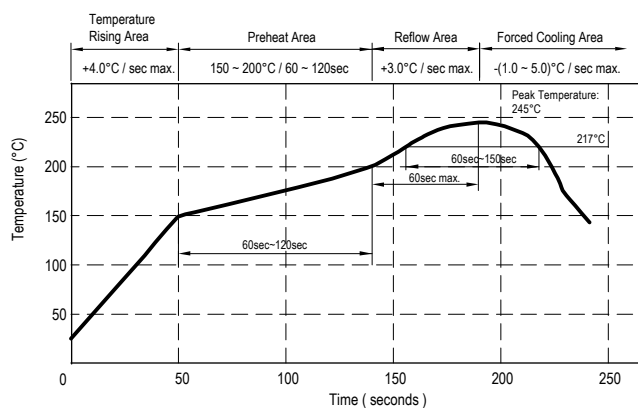
- Ferrite drum core construction
- Enamelled copper wire: F class
- Product weight: 1.30g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Open magnetic circuit structure.
- Plastic base with assembly tinned copper terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly.
- Higher inductance available for low voltage switching regulator power circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 245°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



SB1005-L Series

ELECTRICAL CHARACTERISTICS

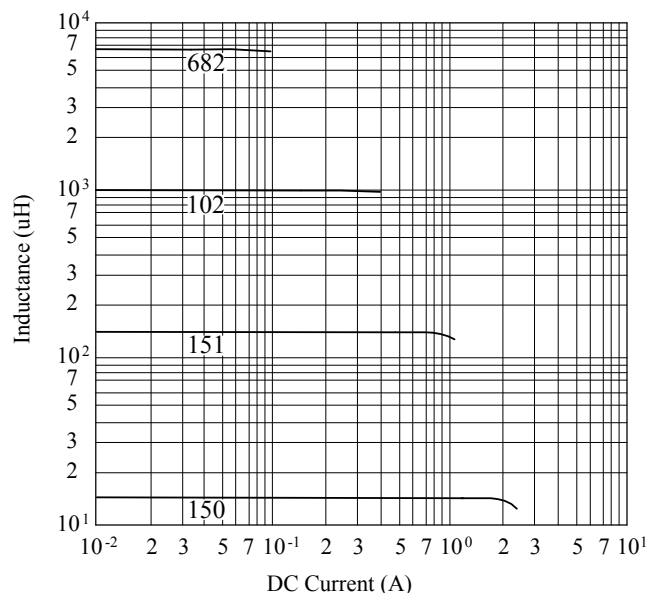
DWG. No.	Inductance (μH)	RDC (Ω) max.	SRF (MHz) typ.	I _{rms} (A) typ.	I _{sat} (A) max.
SB10051R0ML□-□□□	1.0±20%	0.007	130.0	7.50	9.00
SB10051R5ML□-□□□	1.5±20%	0.009	90.0	6.50	8.00
SB10052R5ML□-□□□	2.5±20%	0.012	65.0	5.50	7.00
SB10053R3ML□-□□□	3.3±20%	0.015	50.0	5.00	6.40
SB10054R7ML□-□□□	4.7±20%	0.019	45.0	4.50	5.40
SB10056R8ML□-□□□	6.8±20%	0.034	35.0	3.40	4.50
SB1005100ML□-□□□	10.0±20%	0.045	25.0	2.90	3.70
SB1005150ML□-□□□	15.0±20%	0.060	23.0	2.50	3.00
SB1005220ML□-□□□	22.0±20%	0.095	18.0	2.00	2.50
SB1005330KL□-□□□	33.0±10%	0.120	15.0	1.80	2.00
SB1005470KL□-□□□	47.0±10%	0.190	12.0	1.40	1.60
SB1005680KL□-□□□	68.0±10%	0.240	10.0	1.20	1.40
SB1005101KL□-□□□	100.0±10%	0.330	8.0	1.00	1.20
SB1005151KL□-□□□	150.0±10%	0.590	6.0	0.80	1.00
SB1005221KL□-□□□	220.0±10%	0.780	5.0	0.70	0.80
SB1005331KL□-□□□	330.0±10%	1.150	4.0	0.55	0.60
SB1005471KL□-□□□	470.0±10%	1.700	3.5	0.45	0.50
SB1005681KL□-□□□	680.0±10%	2.600	3.0	0.35	0.40
SB1005102KL□-□□□	1000.0±10%	3.900	2.0	0.30	0.30
SB1005152KL□-□□□	1500.0±10%	6.300	1.9	0.25	0.25
SB1005222KL□-□□□	2200.0±10%	8.200	1.6	0.20	0.20
SB1005332KL□-□□□	3300.0±10%	14.000	1.2	0.16	0.17
SB1005472KL□-□□□	4700.0±10%	17.000	1.1	0.15	0.15
SB1005682KL□-□□□	6800.0±10%	30.000	0.9	0.11	0.12
SB1005103KL□-□□□	10000.0±10%	39.000	0.7	0.10	0.10

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

- I_{sat} base on ΔL/L0A=10% max.
- I_{rms} base on Temp. rise 40°C typ.
- Inductance Test Freq. at 100kHz / 0.1V

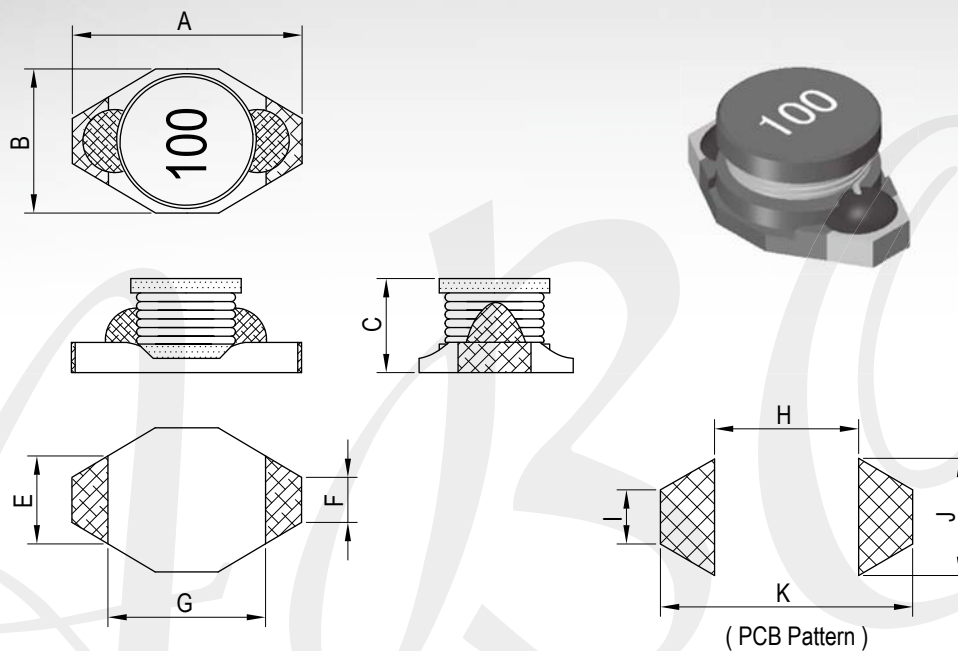
CURVE

@ Inductance VS. DC Current Curve



SB1608-2 Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	E	F	G	H	I	J	K
SB1608-2	6.60 max.	4.45 max.	2.92 max.	3.05 typ.	1.27 typ.	4.32 typ.	4.10 ref.	1.60 ref.	3.00 ref.	7.00 ref.

DESCRIPTION

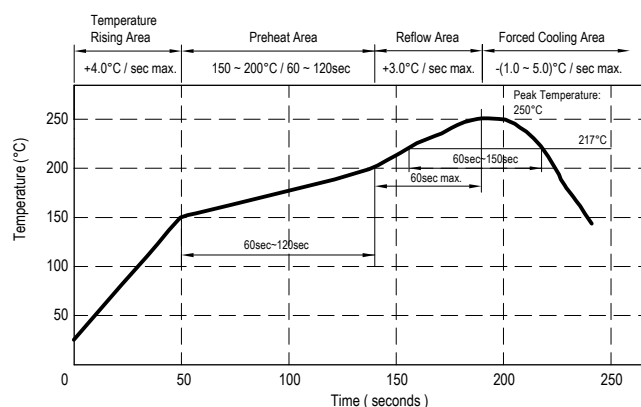
- Ferrite drum core construction
- Enamelled copper wire: F, H class
- Product weight: 0.10g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Open magnetic circuit structure
- Ceramic substrate base with Au terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly
- Higher inductance available for RF filter & amplifier application

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



SB1608-2 Series

ELECTRICAL CHARACTERISTICS

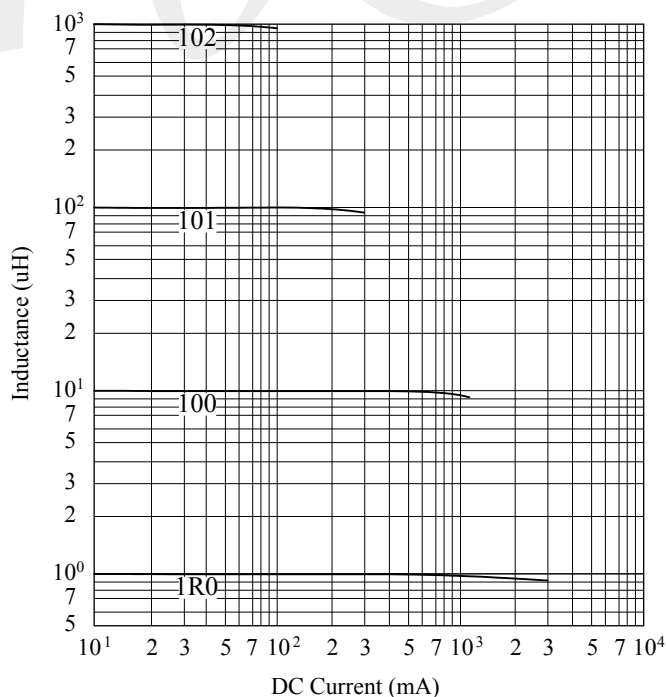
DWG. No.	Inductance (μH)	SRF (MHz) typ.	RDC (Ω) max.	I _{rms} (A)	I _{sat} (A)
SB16081R0M2□-□□□	1.0±20%	130.0	0.05	2.90	2.90
SB16081R5M2□-□□□	1.5±20%	115.0	0.05	2.80	2.60
SB16082R2M2□-□□□	2.2±20%	90.0	0.07	2.40	2.30
SB16083R3M2□-□□□	3.3±20%	70.0	0.08	2.00	2.00
SB16084R7M2□-□□□	4.7±20%	50.0	0.09	1.50	1.50
SB16086R8M2□-□□□	6.8±20%	45.0	0.13	1.40	1.20
SB1608100M2□-□□□	10.0±20%	35.0	0.16	1.10	1.10
SB1608150M2□-□□□	15.0±20%	30.0	0.23	1.00	0.90
SB1608220M2□-□□□	22.0±20%	20.0	0.37	0.80	0.70
SB1608330M2□-□□□	33.0±20%	15.0	0.51	0.60	0.58
SB1608470M2□-□□□	47.0±20%	14.0	0.64	0.50	0.50
SB1608680M2□-□□□	68.0±20%	11.0	0.86	0.40	0.40
SB1608101M2□-□□□	100.0±20%	9.0	1.27	0.30	0.31
SB1608151M2□-□□□	150.0±20%	6.0	2.00	0.25	0.27
SB1608221M2□-□□□	220.0±20%	5.5	3.11	0.20	0.22
SB1608331M2□-□□□	330.0±20%	5.0	3.80	0.16	0.18
SB1608471M2□-□□□	470.0±20%	4.0	5.06	0.15	0.16
SB1608681M2□-□□□	680.0±20%	3.0	9.20	0.12	0.14
SB1608102M2□-□□□	1000.0±20%	2.0	13.80	0.07	0.10

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

- I_{rms} base on Temp. rise 15°C typ.
- I_{sat} base on ΔL/L0A=10% typ.
- Inductance Test Freq. at 100kHz / 0.1V

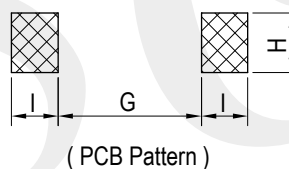
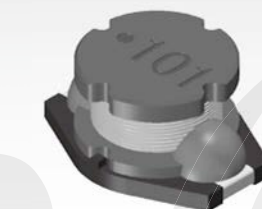
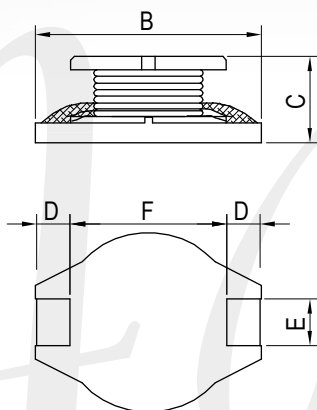
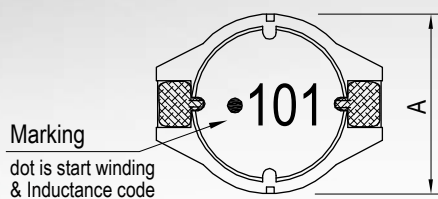
CURVE

@ Inductance VS. DC Current Curve



SB0805-F Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I
SB0805-F	8.00±0.30	10.50±0.30	5.00±0.30	2.10±0.20	2.00±0.20	6.00±0.30	5.70 ref.	2.20 ref.	2.40 ref.

DESCRIPTION

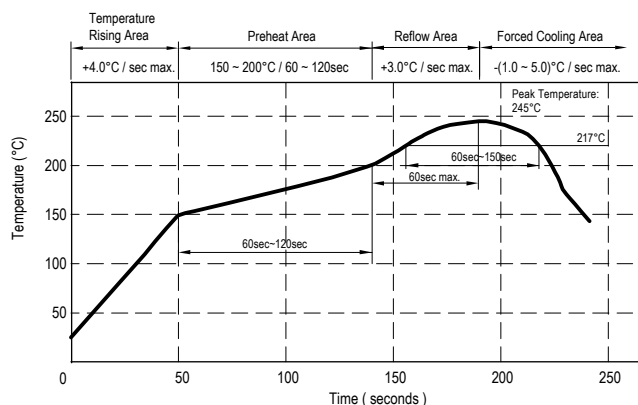
- Ferrite drum core construction
- Enamelled copper wire: F class
- Product weight: 0.80g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Open magnetic circuit structure
- Plastic base with assembly tinned copper terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly
- Higher inductance available for low voltage switching regulator power circuit

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs.
- Recommended IR Reflow:
Peak Temp: 245°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



SB0805-F Series

ELECTRICAL CHARACTERISTICS

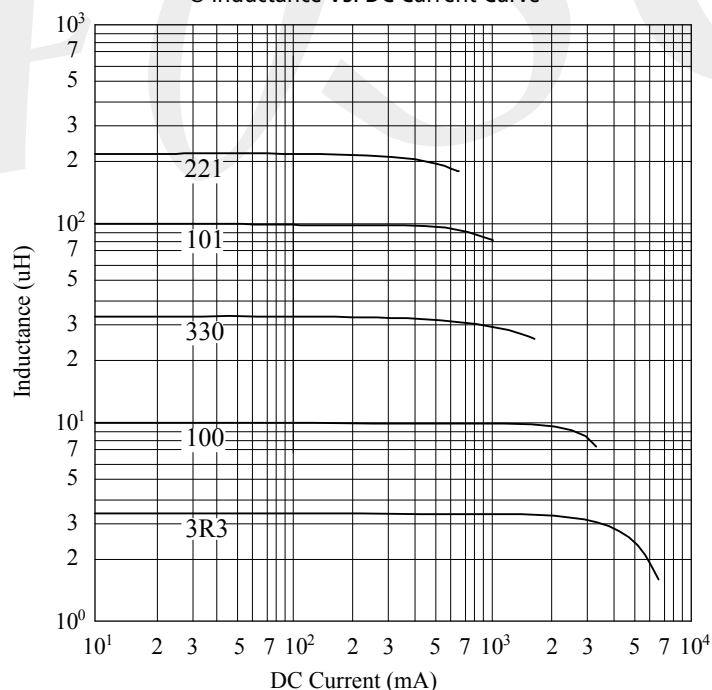
DWG. No.	Inductance (μ H)	RDC (Ω) max.	I _{rms} (A) max.	I _{sat} (A) typ.
SB08053R3MF□-□□□	3.3 $\pm$ 20%	0.022	5.00	5.20
SB08054R7MF□-□□□	4.7 $\pm$ 20%	0.028	4.20	4.00
SB08056R8MF□-□□□	6.8 $\pm$ 20%	0.040	3.40	3.40
SB0805100MF□-□□□	10.0 $\pm$ 20%	0.050	3.00	2.80
SB0805150MF□-□□□	15.0 $\pm$ 20%	0.070	2.40	2.30
SB0805220MF□-□□□	22.0 $\pm$ 20%	0.100	2.00	1.85
SB0805330MF□-□□□	33.0 $\pm$ 20%	0.145	1.72	1.54
SB0805470YF□-□□□	47.0 $\pm$ 15%	0.200	1.40	1.28
SB0805680YF□-□□□	68.0 $\pm$ 15%	0.270	1.20	1.15
SB0805101YF□-□□□	100.0 $\pm$ 15%	0.400	1.00	0.92
SB0805151YF□-□□□	150.0 $\pm$ 15%	0.560	0.75	0.75
SB0805221YF□-□□□	220.0 $\pm$ 15%	0.860	0.62	0.62
SB0805331YF□-□□□	330.0 $\pm$ 15%	1.500	0.46	0.50

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

- I_{sat} base on $\Delta L/L_0A=10\%$ typ.
- I_{rms} base on Temp. rise 40°C max.
- Inductance Test Freq. at 100kHz / 0.1V

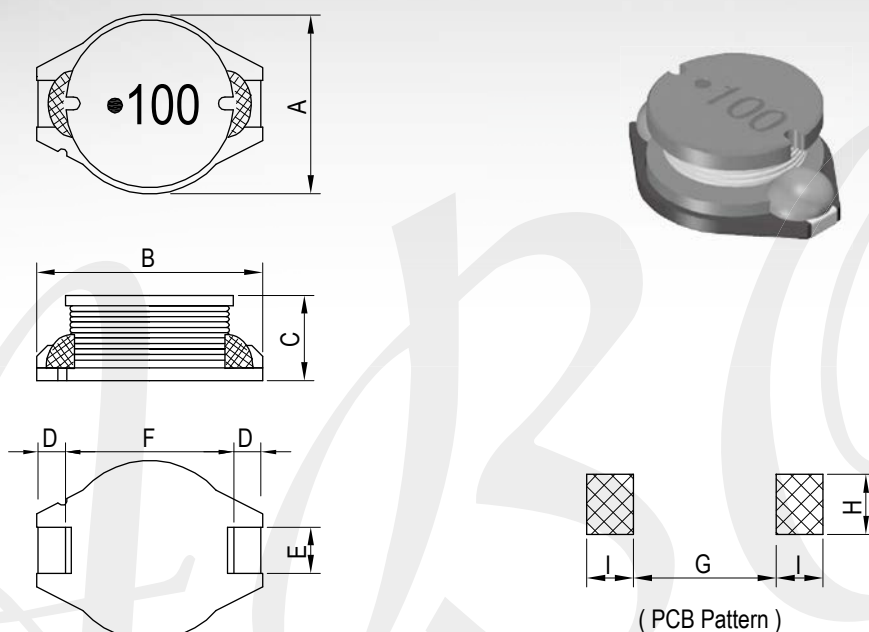
CURVE

@ Inductance VS. DC Current Curve



SB1806-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I
SB1806-L	14.00±0.50	18.20±0.50	6.60±0.50	2.50±0.20	2.60±0.20	13.00±0.30	12.70 ref.	2.90 ref.	3.20 ref.

DESCRIPTION

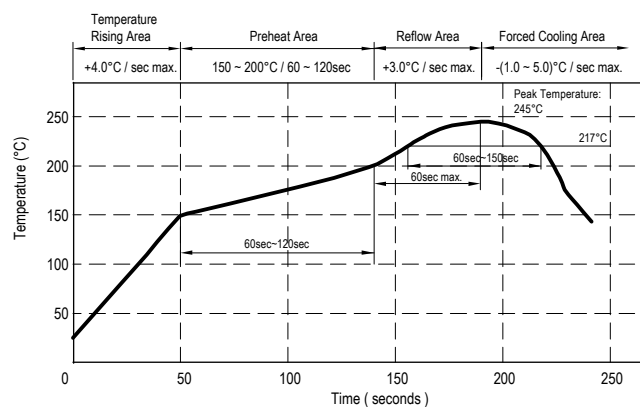
- Ferrite drum core construction
- Enamelled copper wire: F class
- Product weight: 3.96g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Open magnetic circuit structure.
- Plastic base with assembly tinned copper terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly.
- Higher inductance available for low voltage switching regulator power circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 245°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



SB1806-L Series

ELECTRICAL CHARACTERISTICS

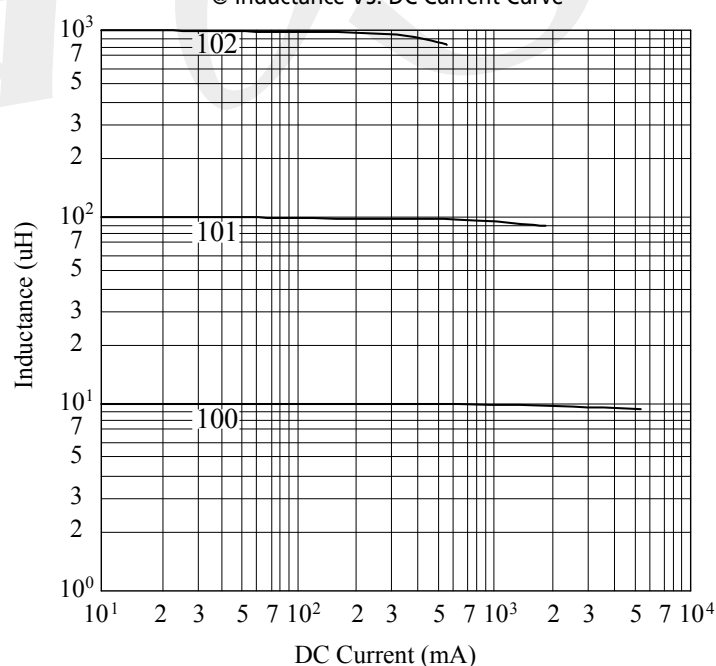
DWG. No.	Inductance (μH)	RDC (mΩ) max.	SRF (MHz) typ.	I _{rms} (A) max.	I _{sat} (A) typ.
SB18061R0ML□-□□□	1.0±20%	4.0	100.0	10.00	30.00
SB18062R2ML□-□□□	2.2±20%	6.8	55.0	9.00	22.00
SB18063R3ML□-□□□	3.3±20%	9.8	40.0	7.60	17.00
SB18065R6ML□-□□□	5.6±20%	15.0	30.0	6.40	12.80
SB1806100ML□-□□□	10.0±20%	25.0	25.0	5.30	10.00
SB1806150ML□-□□□	15.0±20%	35.0	17.0	4.30	8.00
SB1806220ML□-□□□	22.0±20%	45.0	13.0	3.60	6.70
SB1806330ML□-□□□	33.0±20%	68.0	11.0	3.00	5.40
SB1806470ML□-□□□	47.0±20%	95.0	9.0	2.50	4.60
SB1806680ML□-□□□	68.0±20%	130.0	8.0	2.10	3.80
SB1806101KL□-□□□	100.0±10%	190.0	7.0	1.70	3.20
SB1806151KL□-□□□	150.0±10%	270.0	5.0	1.40	2.60
SB1806221KL□-□□□	220.0±10%	420.0	4.5	1.10	2.20
SB1806331KL□-□□□	330.0±10%	580.0	3.5	1.00	1.80
SB1806471KL□-□□□	470.0±10%	820.0	3.0	0.80	1.50
SB1806681KL□-□□□	680.0±10%	1200.0	2.5	0.70	1.20
SB1806102KL□-□□□	1000.0±10%	1800.0	2.0	0.50	1.00

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

- Inductance Test Freq. at 100kHz / 0.1V
- I_{rms} base on Temp. rise 40°C max.
- I_{sat} base on ΔL/L0A=10% typ .

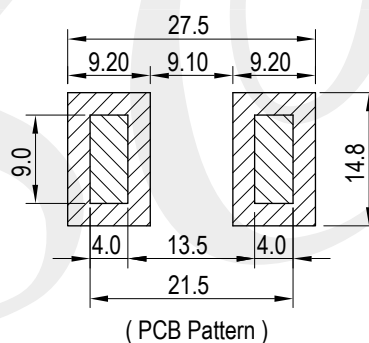
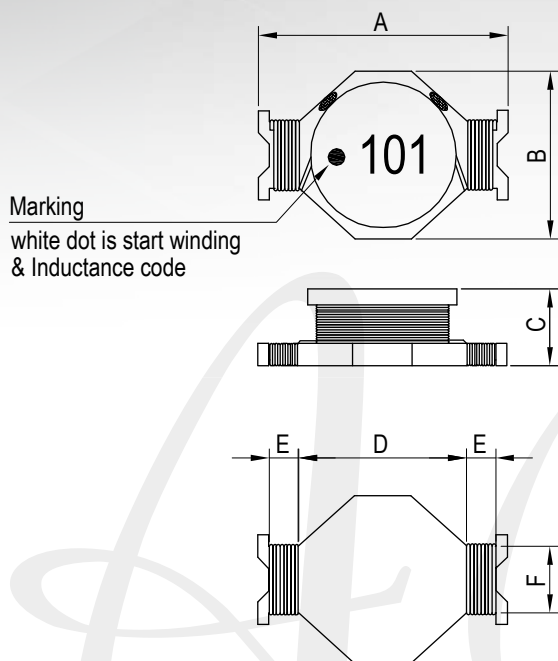
CURVE

@ Inductance VS. DC Current Curve



SB2207-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F
SB2207-L	22.00±0.30	15.00±0.30	7.00±0.40	15.00 typ.	2.30 typ.	8.00 typ.

DESCRIPTION

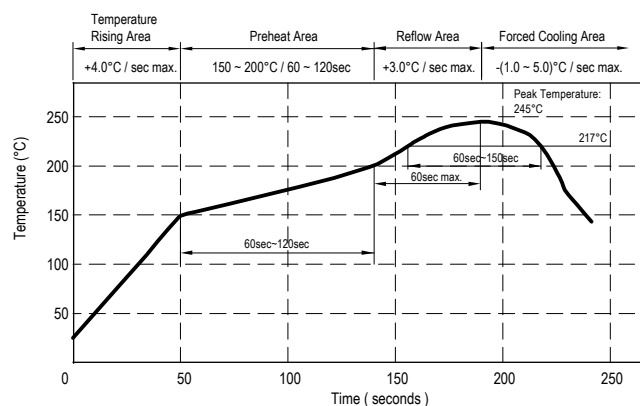
- Ferrite drum core construction
- Enamelled copper wire: F class
- Product weight: 4.36g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 245°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Open magnetic circuit structure.
- Wire directly wrap onto plastic base as terminals reduce contact impedance.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for low voltage switching regulator power circuit.



SB2207-L Series

ELECTRICAL CHARACTERISTICS

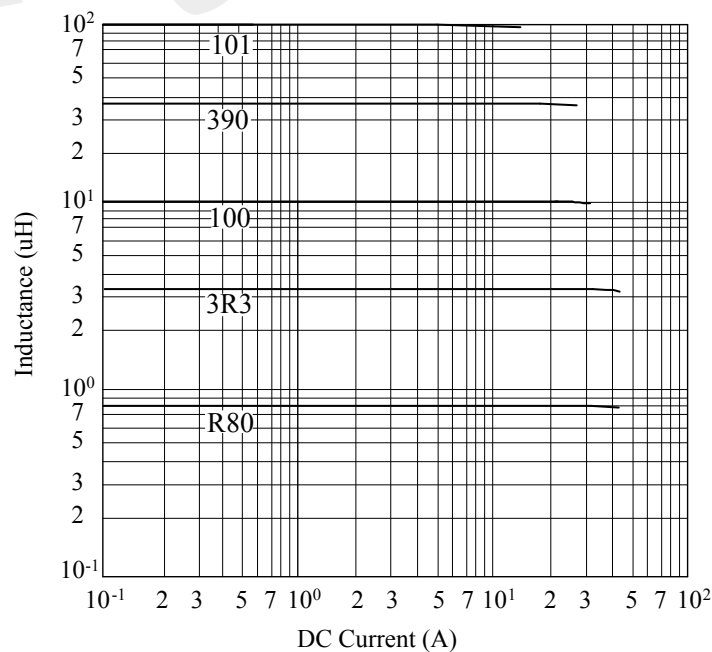
DWG. No.	Inductance (μ H)	RDC (m Ω)	I _{rms} (A) max.	I _{sat} (A) typ.
SB2207R80ML□-□□□	0.80 $\pm$ 20%	2.3 $\pm$ 20%	16.0	35.0
SB22071R2ML□-□□□	1.20 $\pm$ 20%	3.2 $\pm$ 20%	15.0	30.0
SB22071R8ML□-□□□	1.80 $\pm$ 20%	4.5 $\pm$ 20%	13.0	25.0
SB22072R7ML□-□□□	2.70 $\pm$ 20%	7.0 $\pm$ 20%	10.0	20.0
SB22073R3ML□-□□□	3.30 $\pm$ 20%	7.8 $\pm$ 20%	9.0	17.0
SB22074R7ML□-□□□	4.70 $\pm$ 20%	8.8 $\pm$ 20%	8.5	15.0
SB22075R6ML□-□□□	5.60 $\pm$ 20%	12.4 $\pm$ 20%	7.8	14.0
SB22076R8ML□-□□□	6.80 $\pm$ 20%	14.2 $\pm$ 20%	7.5	12.0
SB22078R2ML□-□□□	8.20 $\pm$ 20%	15.5 $\pm$ 20%	7.0	11.0
SB2207100ML□-□□□	10.00 $\pm$ 20%	17.2 $\pm$ 20%	6.5	10.0
SB2207120YL□-□□□	12.00 $\pm$ 15%	23.6 $\pm$ 20%	5.5	9.5
SB2207150YL□-□□□	15.00 $\pm$ 15%	28.8 $\pm$ 20%	5.0	9.0
SB2207180YL□-□□□	18.00 $\pm$ 15%	33.0 $\pm$ 20%	4.6	8.0
SB2207220YL□-□□□	22.00 $\pm$ 15%	39.4 $\pm$ 20%	4.0	6.5
SB2207270YL□-□□□	27.00 $\pm$ 15%	43.5 $\pm$ 20%	3.8	6.0
SB2207330YL□-□□□	33.00 $\pm$ 15%	58.4 $\pm$ 20%	3.4	5.5
SB2207390KL□-□□□	39.00 $\pm$ 10%	65.0 $\pm$ 20%	3.2	5.2
SB2207470KL□-□□□	47.00 $\pm$ 10%	91.2 $\pm$ 20%	2.8	5.0
SB2207560KL□-□□□	56.00 $\pm$ 10%	96.5 $\pm$ 20%	2.6	4.5
SB2207680KL□-□□□	68.00 $\pm$ 10%	112.0 $\pm$ 20%	2.4	4.0
SB2207820KL□-□□□	82.00 $\pm$ 10%	144.0 $\pm$ 20%	2.2	3.5
SB2207101KL□-□□□	100.00 $\pm$ 10%	168.0 $\pm$ 20%	2.0	3.0

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

- Inductance Test Freq. at 100kHz / 0.1V
- I_{rms} base on Temp. rise 40°C max.
- I_{sat} base on $\Delta L/L_0 = 10\%$ typ.

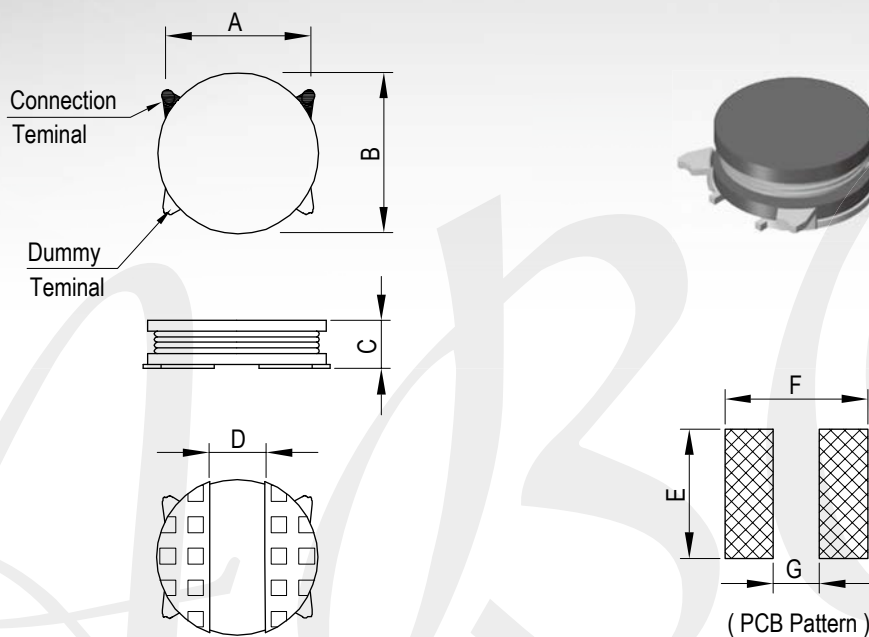
CURVE

@ Inductance VS. DC Current Curve



CB2010-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G
CB2010-L	2.00±0.20	2.00±0.20	1.00±0.10	0.70 typ.	2.60 ref.	2.50 ref.	0.70 ref.

DESCRIPTION

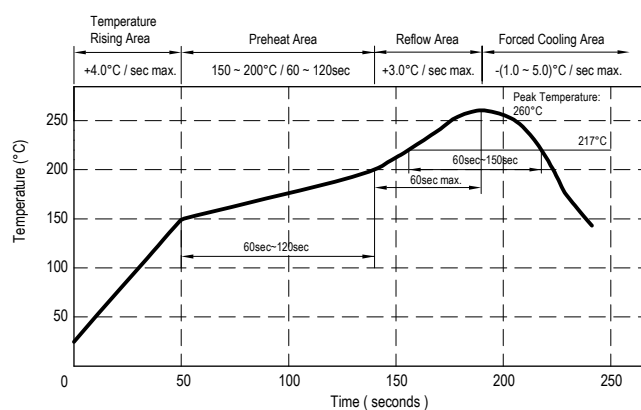
- Ferrite drum core construction
- Enamelled copper wire: H class
- Product weight: 0.014g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Tinned copper lead frame as terminal with laser melting joint offer higher reliability.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for low power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 260°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 260°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



CB2010-L Series

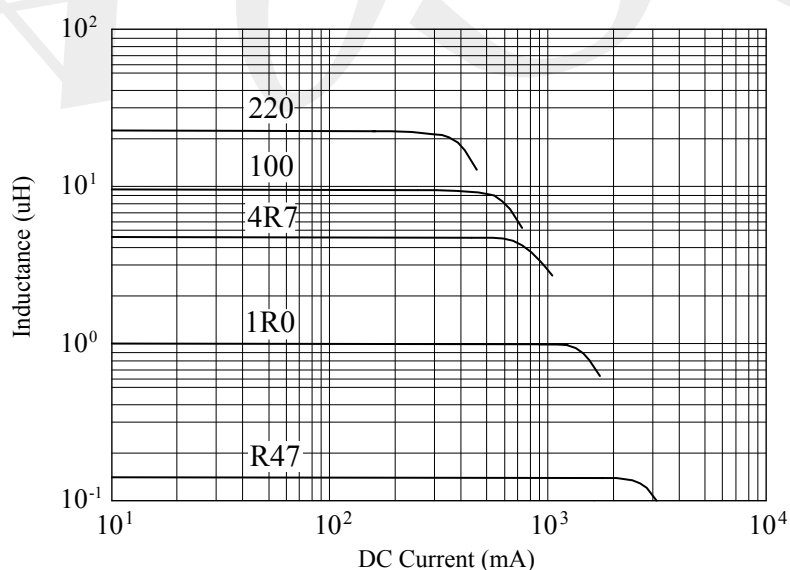
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	RDC (m Ω) max.	SRF (MHz) typ.	I _{rms} (mA) typ.	I _{peak} (mA)	
					max.	typ.
CB2010R47ML□-□□□	0.47 $\pm$ 20%	100	250	1600	2400	3100
CB2010R58ML□-□□□	0.58 $\pm$ 20%	120	200	1500	2100	2700
CB2010R80ML□-□□□	0.80 $\pm$ 20%	150	185	1400	1900	2400
CB20101R0ML□-□□□	1.00 $\pm$ 20%	200	160	1200	1800	2100
CB20101R5ML□-□□□	1.50 $\pm$ 20%	270	140	970	1450	1900
CB20102R0ML□-□□□	2.00 $\pm$ 20%	315	120	900	1250	1700
CB20102R2ML□-□□□	2.20 $\pm$ 20%	400	105	840	1200	1300
CB20103R3ML□-□□□	3.30 $\pm$ 20%	550	85	730	980	1100
CB20104R7ML□-□□□	4.70 $\pm$ 20%	800	65	600	800	950
CB20106R8ML□-□□□	6.80 $\pm$ 20%	1000	55	540	730	850
CB20108R2ML□-□□□	8.20 $\pm$ 20%	1300	50	490	650	750
CB2010100ML□-□□□	10.00 $\pm$ 20%	1450	43	440	610	650
CB2010120ML□-□□□	12.00 $\pm$ 20%	1840	35	390	510	550
CB2010150ML□-□□□	15.00 $\pm$ 20%	2140	30	360	470	490
CB2010220ML□-□□□	22.00 $\pm$ 20%	3600	25	200	420	450

- : Packaging information: □ Code
- "- □□□": Reference code
- Electrical specifications at 25°C
- Inductance Test Condition.: 100kHz / 0.1V
- I_{rms} base on Temp. rise 40°C typ.
- I_{peak}: Approximately peak current at short time is 10%

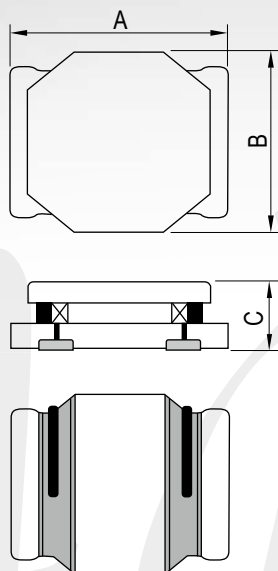
CURVE

@ Inductance VS. DC Current Curve



TPI2410 CT Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C
TPI2410 CT	2.40±0.10	2.40±0.10	1.00 max.

DESCRIPTION

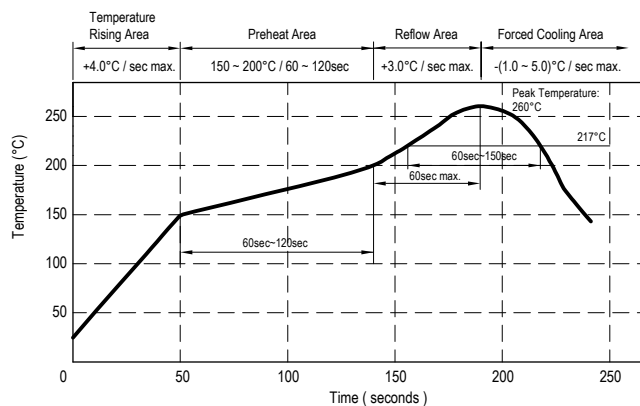
- Magnetic shield construction
- Ferrite core with tin plating terminals
- Comply with RoHS' requirement
- Product weight: 0.02 ~ 0.50g (ref.)

FEATURES & APPLICATION

- Magnetic resin coating onto coil with semi-shielded effect to reduce leakage field.
- Metalize termination Sn/Ni/Ag plating onto ferrite with excellent solder ability.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -10 ~ +40°C
- Humidity: 30 ~ 70% R.H.
- Operating temp.: -25°C ~ +120°C (Temp. rise included)
- Moisture Sensitivity Level: 2
- Recommended IR reflow:
 - Peak Temp.: 260°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



TPI2410 CT Series

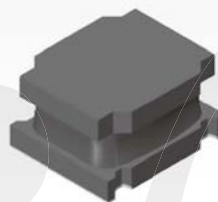
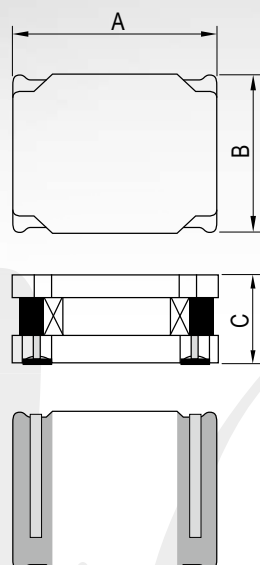
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Test Freq.	Tolerance	DC Resistance (m Ω)		Rated DC Current (A)	
				max.	typ.	Idc1	Idc2
TPI2410CTR68 □-□□	0.68	100 kHz, 1V	N	78	60	2.60	2.50
TPI2410CT1R0 □-□□	1.00	100 kHz, 1V	N	91	70	2.00	1.90
TPI2410CT1R5 □-□□	1.50	100 kHz, 1V	M	132	110	1.50	1.50
TPI2410CT2R2 □-□□	2.20	100 kHz, 1V	M	168	140	1.30	1.20
TPI2410CT3R3 □-□□	3.30	100 kHz, 1V	M	264	220	1.05	1.00
TPI2410CT4R7 □-□□	4.70	100 kHz, 1V	M	348	290	0.92	0.90
TPI2410CT6R8 □-□□	6.80	100 kHz, 1V	M	492	410	0.75	0.65
TPI2410CT100 □-□□	10.00	100 kHz, 1V	M	828	690	0.60	0.55
TPI2410CT150 □-□□	15.00	100 kHz, 1V	M	1224	1020	0.50	0.45
TPI2410CT220 □-□□	22.00	100 kHz, 1V	M	1764	1470	0.40	0.40

1. Inductance is measured in HP-4285A Precision LCR Meter.
2. RDC is measured in HP 4338B milli ohm meter.(or equivalent).
3. Tolerance: M=20%, N=30% (Table shows stock tolerances in □).
4. Idc1: Based on inductance change ($\Delta L/L_0$: $\leq$ -30%)
5. Idc2: Based on temperature rise (ΔT : 40°C typ.)

TPI2510/2512/2515 CT Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C
TPI2510 CT	2.50±0.10	2.00±0.10	1.00 max.
TPI2512 CT	2.50±0.10	2.00±0.10	1.20 max.
TPI2515 CT	2.50±0.10	2.00±0.10	1.50 max.

DESCRIPTION

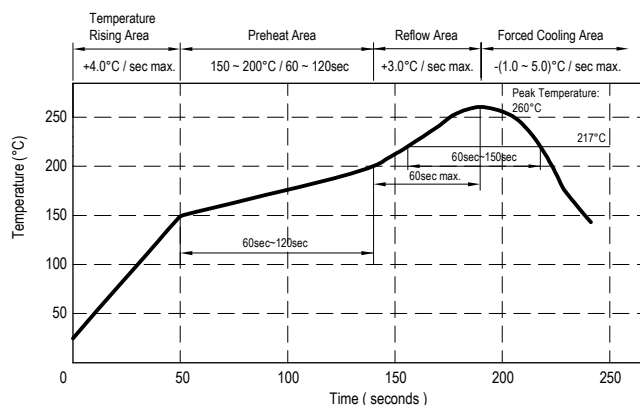
- Magnetic shield construction
- Ferrite core with tin plating terminals
- Comply with RoHS' requirement
- Product weight: 0.02 ~ 0.50g (ref.)

FEATURES & APPLICATION

- Magnetic resin coating onto coil with semi-shielded effect to reduce leakage field.
- Metalize termination Sn/Ni/Ag plating onto ferrite with excellent solder ability.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -10 ~ +40°C
Humidity: 30 ~ 70% R.H.
- Operating temp.: -25°C ~ +120°C (Temp. rise included)
- Moisture Sensitivity Level: 2
- Recommended IR reflow:
Peak Temp.: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



TPI2510/2512/2515 CT Series

ELECTRICAL CHARACTERISTICS

■ TPI2510 CT Series

DWG. No.	Inductance (μ H)	Test Freq.	Tolerance	DC Resistance (m Ω)		Rated DC Current (A)	
				max.	typ.	Idc1	Idc2
TPI2510CTR47□-□□	0.47	100 kHz, 1V	N	46	38	2.50	2.65
TPI2510CTR68□-□□	0.68	100 kHz, 1V	N	62	52	2.05	2.20
TPI2510CT1R0□-□□	1.00	100 kHz, 1V	N	84	70	1.75	1.90
TPI2510CT1R5□-□□	1.50	100 kHz, 1V	N	128	107	1.45	1.50
TPI2510CT2R2□-□□	2.20	100 kHz, 1V	M	190	158	1.20	1.20
TPI2510CT3R3□-□□	3.30	100 kHz, 1V	M	275	229	0.94	1.00
TPI2510CT4R7□-□□	4.70	100 kHz, 1V	M	398	332	0.80	0.82
TPI2510CT6R8□-□□	6.80	100 kHz, 1V	M	532	443	0.68	0.71
TPI2510CT100□-□□	10.00	100 kHz, 1V	M	854	712	0.56	0.55

■ TPI2512 CT Series

DWG. No.	Inductance (μ H)	Test Freq.	Tolerance	DC Resistance (m Ω)		Rated DC Current (A)	
				max.	typ.	Idc1	Idc2
TPI2512CTR47□-□□	0.47	100 kHz, 1V	N	56	47	2.75	2.15
TPI2512CT1R0□-□□	1.00	100 kHz, 1V	N	87	73	2.20	1.70
TPI2512CT1R5□-□□	1.50	100 kHz, 1V	N	126	105	1.80	1.45
TPI2512CT2R2□-□□	2.20	100 kHz, 1V	M	154	129	1.55	1.30
TPI2512CT3R3□-□□	3.30	100 kHz, 1V	M	272	227	1.25	0.98
TPI2512CT4R7□-□□	4.70	100 kHz, 1V	M	405	338	1.05	0.81
TPI2512CT6R8□-□□	6.80	100 kHz, 1V	M	612	510	0.85	0.65
TPI2512CT100□-□□	10.00	100 kHz, 1V	M	756	630	0.73	0.59

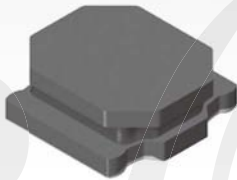
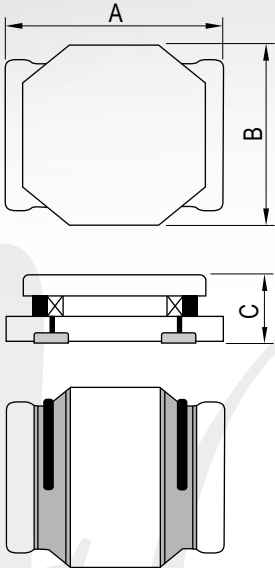
■ TPI2515 CT Series

DWG. No.	Inductance (μ H)	Test Freq.	Tolerance	DC Resistance (m Ω)		Rated DC Current (A)	
				max.	typ.	Idc1	Idc2
TPI2515CTR47□-□□	0.47	100 kHz, 1V	N	46	35	3.30	2.80
TPI2515CT1R0□-□□	1.00	100 kHz, 1V	N	64	49	2.30	2.20
TPI2515CT1R5□-□□	1.50	100 kHz, 1V	N	87	67	2.00	1.80
TPI2515CT2R2□-□□	2.20	100 kHz, 1V	M	120	100	1.70	1.50
TPI2515CT3R3□-□□	3.30	100 kHz, 1V	M	166	138	1.35	1.30
TPI2515CT4R7□-□□	4.70	100 kHz, 1V	M	247	206	1.15	1.10
TPI2515CT6R8□-□□	6.80	100 kHz, 1V	M	354	295	0.95	0.90
TPI2515CT100□-□□	10.00	100 kHz, 1V	M	534	445	0.80	0.75

1. Inductance is measured in HP-4285A Precision LCR Meter.
2. RDC is measured in HP 4338B milli ohm meter.(or equivalent).
3. Tolerance: M=20%, N=30% (Table shows stock tolerances in □).
4. Idc1: Based on inductance change ($\Delta L/L_0$: $\leq -30\%$)
5. Idc2: Based on temperature rise (ΔT : 40°C typ.)

TPI3010 CT Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C
TPI3010 CT	3.00±0.10	3.00±0.10	1.00 max.

DESCRIPTION

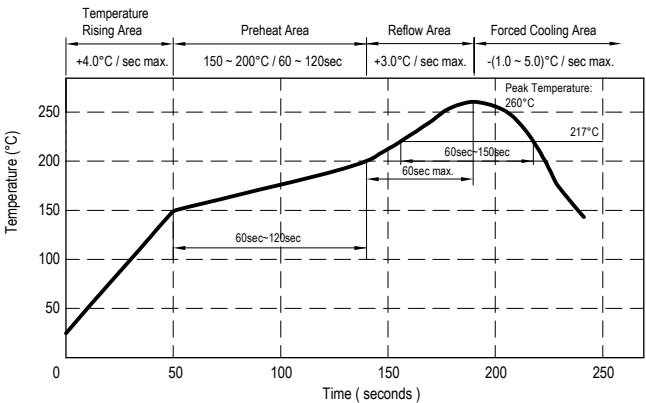
- Magnetic shield construction
- Ferrite core with tin plating terminals
- Comply with RoHS' requirement
- Product weight: 0.02 ~ 0.50g (ref.)

FEATURES & APPLICATION

- Magnetic resin coating onto coil with semi-shielded effect to reduce leakage field.
- Metalize termination Sn/Ni/Ag plating onto ferrite with excellent solder ability.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -10 ~ +40°C
- Humidity: 30 ~ 70% R.H.
- Operating temp.: -25°C ~ +120°C (Temp. rise included)
- Moisture Sensitivity Level: 2
- Recommended IR reflow:
 - Peak Temp.: 260°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



TPI3010 CT Series

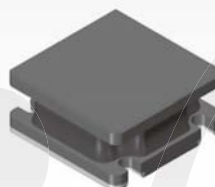
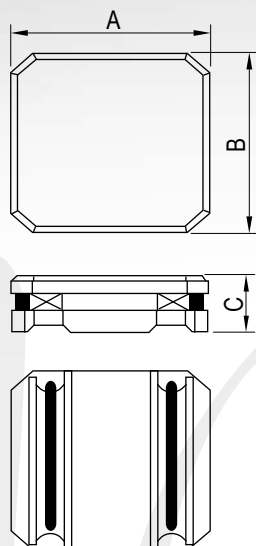
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Test Freq.	Tolerance	DC Resistance (m Ω)		Rated DC Current (A)	
				Max.	Typ.	Idc1	Idc2
TPI3010CT1R0 □-□□	1.0	100 kHz, 1V	N	63	50	2.30	2.30
TPI3010CT1R2 □-□□	1.2	100 kHz, 1V	N	81	62	1.90	2.10
TPI3010CT1R5 □-□□	1.5	100 kHz, 1V	N	91	70	1.65	2.00
TPI3010CT2R2 □-□□	2.2	100 kHz, 1V	M	96	80	1.30	1.90
TPI3010CT3R3 □-□□	3.3	100 kHz, 1V	M	156	130	1.05	1.80
TPI3010CT4R7 □-□□	4.7	100 kHz, 1V	M	210	175	0.85	1.70
TPI3010CT6R8 □-□□	6.8	100 kHz, 1V	M	312	260	0.70	1.30
TPI3010CT100 □-□□	10.0	100 kHz, 1V	M	420	350	0.60	0.90
TPI3010CT150 □-□□	15.0	100 kHz, 1V	M	612	510	0.50	0.80
TPI3010CT220 □-□□	22.0	100 kHz, 1V	M	936	780	0.40	0.70
TPI3010CT330 □-□□	33.0	100 kHz, 1V	M	1320	1100	0.32	0.50
TPI3010CT470 □-□□	47.0	100 kHz, 1V	M	1920	1600	0.28	0.35
TPI3010CT101 □-□□	100.0	100 kHz, 1V	M	6000	5000	0.15	0.18

1. Inductance is measured in HP-4285A Precision LCR Meter.
2. RDC is measured in HP 4338B milli ohm meter.(or equivalent).
3. Tolerance: M=20%, N=30% (Table shows stock tolerances in □).
4. Idc1: Based on inductance change ($\Delta L/L_0$: $\leq$ -30%)
5. Idc2: Based on temperature rise (ΔT : 40°C typ.)

TPI3012/3015 CT Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C
TPI3012 CT	3.00±0.10	3.00±0.10	1.20 max.
TPI3015 CT	3.00±0.10	3.00±0.10	1.50 max.

DESCRIPTION

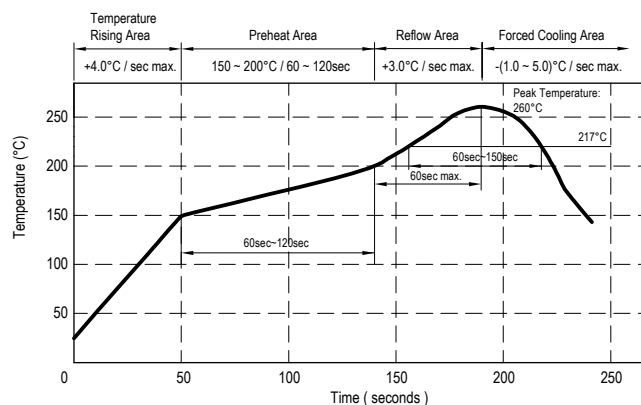
- Magnetic shield construction
- Ferrite core with tin plating terminals
- Comply with RoHS' requirement
- Product weight: 0.02 ~ 0.50g (ref.)

GENERAL SPECIFICATION

- Storage temp.: -10 ~ +40°C
Humidity: 30 ~ 70% R.H.
- Operating temp.: -25°C ~ +120°C (Temp. rise included)
- Moisture Sensitivity Level: 2
- Recommended IR reflow:
Peak Temp.: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Magnetic resin coating onto coil with semi-shielded effect to reduce leakage field.
- Metalize termination Sn/Ni/Ag plating onto ferrite with excellent solder ability.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.



TPI3012/3015 CT Series

ELECTRICAL CHARACTERISTICS

■ TPI3012 CT Series

DWG. No.	Inductance (μ H)	Test Freq.	Tolerance	DC Resistance (m Ω)		Rated DC Current (A)	
				Max.	Typ.	Idc1	Idc2
TPI3012CT1R0□-□□	1.0	100 kHz, 1V	N	54	45	1.90	1.71
TPI3012CT1R5□-□□	1.5	100 kHz, 1V	N	66	55	1.50	1.60
TPI3012CT2R2□-□□	2.2	100 kHz, 1V	M	72	60	1.25	1.37
TPI3012CT2R7□-□□	2.7	100 kHz, 1V	M	108	90	1.20	1.30
TPI3012CT3R3□-□□	3.3	100 kHz, 1V	M	108	90	1.05	1.21
TPI3012CT4R7□-□□	4.7	100 kHz, 1V	M	180	150	0.90	1.06
TPI3012CT6R8□-□□	6.8	100 kHz, 1V	M	228	190	0.70	0.89
TPI3012CT100□-□□	10.0	100 kHz, 1V	M	324	270	0.60	0.72
TPI3012CT150□-□□	15.0	100 kHz, 1V	M	540	450	0.50	0.57
TPI3012CT220□-□□	22.0	100 kHz, 1V	M	660	550	0.40	0.50
TPI3012CT330□-□□	33.0	100 kHz, 1V	M	1080	900	0.30	0.41
TPI3012CT470□-□□	47.0	100 kHz, 1V	M	1500	1250	0.23	0.35

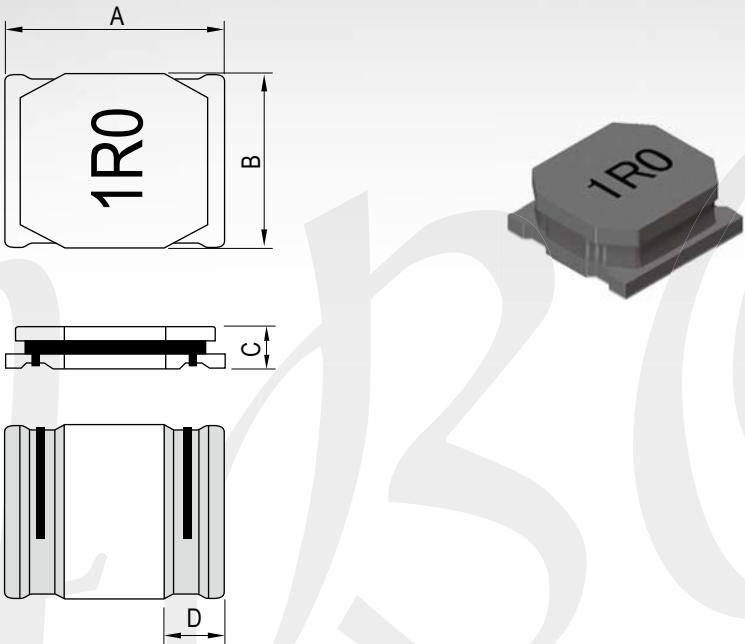
■ TPI3015 CT Series

DWG. No.	Inductance (μ H)	Test Freq.	Tolerance	DC Resistance (m Ω)		Rated DC Current (A)	
				Max.	Typ.	Idc1	Idc2
TPI3015CT1R0□-□□	1.0	100 kHz, 1V	N	36	28	2.30	2.30
TPI3015CT1R5□-□□	1.5	100 kHz, 1V	N	48	37	2.10	2.10
TPI3015CT2R2□-□□	2.2	100 kHz, 1V	M	70	58	1.62	2.00
TPI3015CT2R7□-□□	2.7	100 kHz, 1V	M	72	60	1.50	1.95
TPI3015CT3R3□-□□	3.3	100 kHz, 1V	M	90	75	1.35	1.80
TPI3015CT4R7□-□□	4.7	100 kHz, 1V	M	120	100	1.20	1.60
TPI3015CT5R6□-□□	5.6	100 kHz, 1V	M	144	120	1.00	1.40
TPI3015CT6R8□-□□	6.8	100 kHz, 1V	M	180	150	0.97	1.30
TPI3015CT100□-□□	10.0	100 kHz, 1V	M	264	220	0.80	1.10
TPI3015CT150□-□□	15.0	100 kHz, 1V	M	360	300	0.65	1.00
TPI3015CT180□-□□	18.0	100 kHz, 1V	M	492	410	0.57	0.90
TPI3015CT220□-□□	22.0	100 kHz, 1V	M	570	475	0.55	0.80
TPI3015CT330□-□□	33.0	100 kHz, 1V	M	780	650	0.45	0.70
TPI3015CT390□-□□	39.0	100 kHz, 1V	M	1020	850	0.40	0.50
TPI3015CT470□-□□	47.0	100 kHz, 1V	M	1320	1100	0.35	0.45
TPI3015CT680□-□□	68.0	100 kHz, 1V	M	2040	1700	0.30	0.35
TPI3015CT820□-□□	82.0	100 kHz, 1V	M	2280	1900	0.27	0.32
TPI3015CT101□-□□	100.0	100 kHz, 1V	M	2520	2100	0.25	0.30

1. Inductance is measured in HP-4285A Precision LCR Meter.
2. RDC is measured in HP 4338B milli ohm meter.(or equivalent).
3. Tolerance: M=20%, N=30% (Table shows stock tolerances in □).
4. Idc1: Based on inductance change ($\Delta L/L_0$: $\leq$ -30%)
5. Idc2: Based on temperature rise (ΔT : 40°C typ.)

TPI4018 CT Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D
TPI4018 CT	4.00±0.20	4.00±0.20	1.88 max. (R82~2R7) 1.80 max. (3R3~221)	1.30 typ.

DESCRIPTION

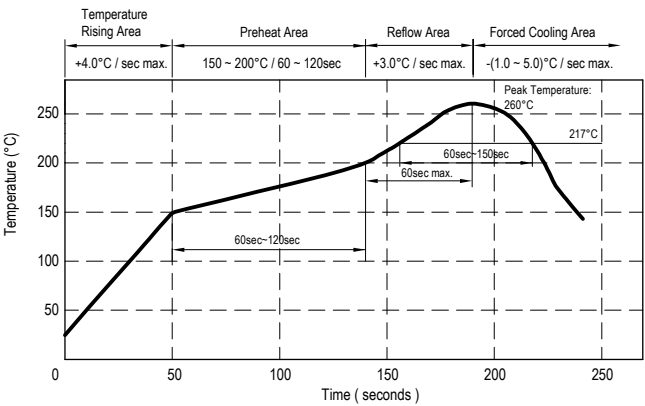
- Magnetic shield construction
- Ferrite core with tin plating terminals
- Comply with RoHS' requirement
- Product weight: 0.02 ~ 0.50g (ref.)

GENERAL SPECIFICATION

- Storage temp.: -10 ~ +40°C
Humidity: 30 ~ 70% R.H.
- Operating temp.: -25°C ~ +120°C (Temp. rise included)
- Moisture Sensitivity Level: 2
- Recommended IR reflow:
Peak Temp.: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Magnetic resin coating onto coil with semi-shielded effect to reduce leakage field.
- Metalize termination Sn/Ni/Ag plating onto ferrite with excellent solder ability.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.



TPI4018 CT Series

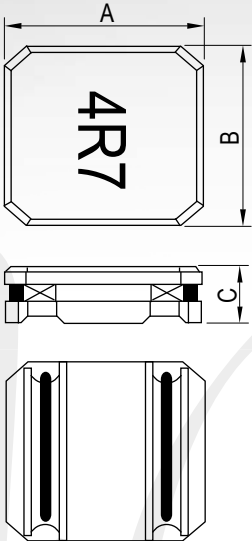
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Test Freq.	Tolerance	DC Resistance (m Ω)		Rated DC Current (A)	
				Max.	Typ.	Idc1	Idc2
TPI4018CTR82 □-□□	0.82	100 kHz, 1V	N	21	16	4.20	4.00
TPI4018CT1R0 □-□□	1.00	100 kHz, 1V	N	25	19	4.70	3.70
TPI4018CT1R2 □-□□	1.20	100 kHz, 1V	N	27	21	4.00	3.50
TPI4018CT1R5 □-□□	1.50	100 kHz, 1V	N	35	27	3.50	3.10
TPI4018CT2R2 □-□□	2.20	100 kHz, 1V	M	44	37	3.00	2.90
TPI4018CT2R7 □-□□	2.70	100 kHz, 1V	M	52	43	2.40	2.30
TPI4018CT3R3 □-□□	3.30	100 kHz, 1V	M	66	55	2.30	2.20
TPI4018CT4R7 □-□□	4.70	100 kHz, 1V	M	84	70	2.00	1.90
TPI4018CT6R8 □-□□	6.80	100 kHz, 1V	M	118	98	1.60	1.50
TPI4018CT100 □-□□	10.00	100 kHz, 1V	M	180	150	1.40	1.30
TPI4018CT150 □-□□	15.00	100 kHz, 1V	M	264	220	1.10	1.00
TPI4018CT220 □-□□	22.00	100 kHz, 1V	M	348	290	0.95	0.90
TPI4018CT330 □-□□	33.00	100 kHz, 1V	M	552	460	0.75	0.70
TPI4018CT470 □-□□	47.00	100 kHz, 1V	M	780	650	0.62	0.60
TPI4018CT680 □-□□	68.00	100 kHz, 1V	M	1128	940	0.50	0.50
TPI4018CT101 □-□□	100.00	100 kHz, 1V	M	1596	1330	0.45	0.42
TPI4018CT151 □-□□	150.00	100 kHz, 1V	M	2400	2000	0.35	0.32
TPI4018CT221 □-□□	220.00	100 kHz, 1V	M	3552	2960	0.30	0.28

1. Inductance is measured in HP-4285A Precision LCR Meter.
2. RDC is measured in HP 4338B milli ohm meter.(or equivalent).
3. Tolerance: M=20%, N=30% (Table shows stock tolerances in □).
4. Idc1: Based on inductance change ($\Delta L/L_0$: $\leq -30\%$)
5. Idc2: Based on temperature rise (ΔT : 40°C typ.)

TPI4025 CT Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C
TPI4025 CT	4.00±0.20	4.00±0.20	2.50 max.

DESCRIPTION

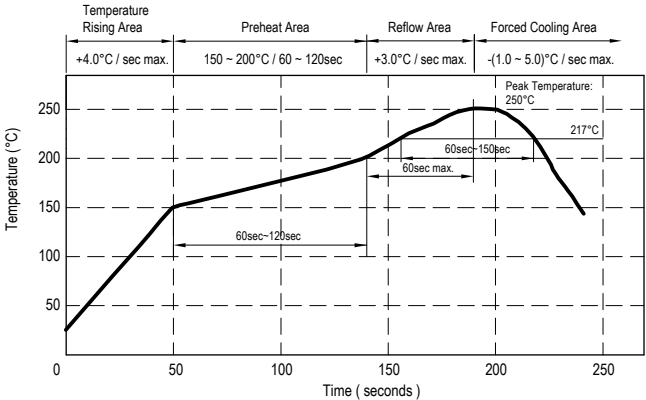
- Magnetic shield construction
- Ferrite core with tin plating terminals
- Comply with RoHS' requirement
- Product weight: 0.02 ~ 0.50g (ref.)

GENERAL SPECIFICATION

- Storage temp.: -10 ~ +40°C
- Humidity: 30 ~ 70% R.H.
- Operating temp.: -25°C ~ +120°C (Temp. rise included)
- Moisture Sensitivity Level: 2
- Recommended IR reflow:
 - Peak Temp.: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Magnetic resin coating onto coil with semi-shielded effect to reduce leakage field.
- Metalize termination Sn/Ni/Ag plating onto ferrite with excellent solder ability.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.



TPI4025 CT Series

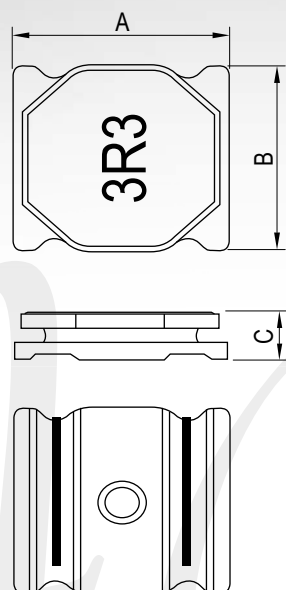
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Test Freq.	Tolerance	DC Resistance (m Ω)		Rated DC Current (A)	
				Max.	Typ.	Idc1	Idc2
TPI4025CT1R0 □-□□	1.0	100 kHz, 1V	N	16	12	3.00	3.00
TPI4025CT1R2 □-□□	1.2	100 kHz, 1V	N	23	18	2.75	2.75
TPI4025CT2R2 □-□□	2.2	100 kHz, 1V	N	29	22	2.10	2.10
TPI4025CT3R3 □-□□	3.3	100 kHz, 1V	M	36	30	1.60	1.60
TPI4025CT4R7 □-□□	4.7	100 kHz, 1V	M	48	40	1.40	1.40
TPI4025CT6R8 □-□□	6.8	100 kHz, 1V	M	84	70	1.20	1.20
TPI4025CT100 □-□□	10.0	100 kHz, 1V	M	102	85	0.97	0.97
TPI4025CT150 □-□□	15.0	100 kHz, 1V	M	144	120	0.77	0.77
TPI4025CT220 □-□□	22.0	100 kHz, 1V	M	234	195	0.67	0.67
TPI4025CT330 □-□□	33.0	100 kHz, 1V	M	366	305	0.50	0.50
TPI4025CT470 □-□□	47.0	100 kHz, 1V	M	594	495	0.40	0.40
TPI4025CT680 □-□□	68.0	100 kHz, 1V	M	852	710	0.35	0.35
TPI4025CT101 □-□□	100.0	100 kHz, 1V	M	1200	1000	0.30	0.30
TPI4025CT151 □-□□	150.0	100 kHz, 1V	M	1920	1600	0.22	0.22
TPI4025CT221 □-□□	220.0	100 kHz, 1V	M	2760	2300	0.20	0.20

1. Inductance is measured in HP-4285A Precision LCR Meter.
2. RDC is measured in HP 4338B milli ohm meter.(or equivalent).
3. Tolerance: M=20%, N=30% (Table shows stock tolerances in □).
4. Idc1: Based on inductance change ($\Delta L/L_0$: $\leq -30\%$)
5. Idc2: Based on temperature rise (ΔT : 40°C typ.)

TPI5020 CT Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C
TPI5020 CT	5.00±0.20	5.00±0.20	2.00 max.

DESCRIPTION

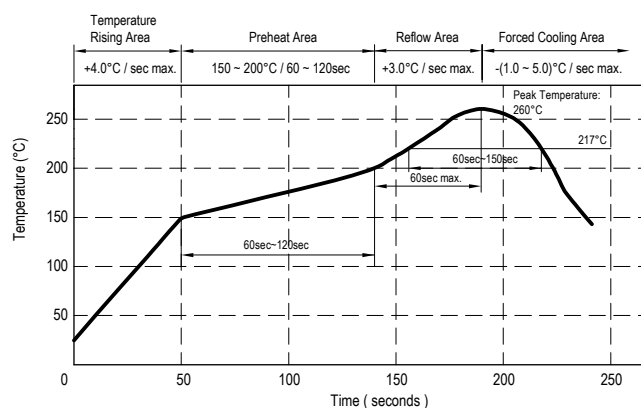
- Magnetic shield construction
- Ferrite core with tin plating terminals
- Comply with RoHS' requirement
- Product weight: 0.02 ~ 0.50g (ref.)

GENERAL SPECIFICATION

- Storage temp.: -10 ~ +40°C
- Humidity: 30 ~ 70% R.H.
- Operating temp.: -25°C ~ +120°C (Temp. rise included)
- Moisture Sensitivity Level: 2
- Recommended IR reflow:
 - Peak Temp.: 260°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Magnetic resin coating onto coil with semi-shielded effect to reduce leakage field.
- Metalize termination Sn/Ni/Ag plating onto ferrite with excellent solder ability.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.



TPI5020 CT Series

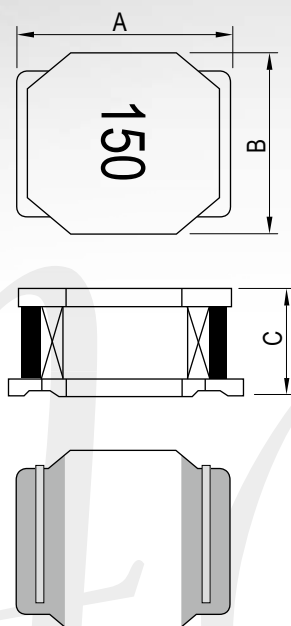
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Test Freq.	Tolerance	DC Resistance (m Ω)		Rated DC Current (A)	
				Max.	Typ.	Idc1	Idc2
TPI5020CT1R0 □-□□	1.0	100 kHz, 1V	N	25	21	4.00	3.60
TPI5020CT1R5 □-□□	1.5	100 kHz, 1V	N	31	26	3.35	3.20
TPI5020CT2R2 □-□□	2.2	100 kHz, 1V	N	42	35	2.90	2.90
TPI5020CT3R3 □-□□	3.3	100 kHz, 1V	M	58	48	2.40	2.40
TPI5020CT4R7 □-□□	4.7	100 kHz, 1V	M	72	60	2.00	2.00
TPI5020CT5R6 □-□□	5.6	100 kHz, 1V	M	106	88	1.80	1.80
TPI5020CT6R8 □-□□	6.8	100 kHz, 1V	M	108	90	1.60	1.65
TPI5020CT100 □-□□	10.0	100 kHz, 1V	M	144	120	1.30	1.45
TPI5020CT150 □-□□	15.0	100 kHz, 1V	M	198	165	1.10	1.20
TPI5020CT220 □-□□	22.0	100 kHz, 1V	M	312	260	0.90	1.00
TPI5020CT330 □-□□	33.0	100 kHz, 1V	M	516	430	0.80	0.90

1. Inductance is measured in HP-4285A Precision LCR Meter.
2. RDC is measured in HP 4338B milli ohm meter.(or equivalent).
3. Tolerance: M=20%, N=30% (Table shows stock tolerances in □).
4. Idc1: Based on inductance change ($\Delta L/L_0$: $\leq$ -30%)
5. Idc2: Based on temperature rise (ΔT : 40°C typ.)

TPI5040 CT Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C
TPI5040 CT	5.00±0.20	5.00±0.20	4.00 max.

DESCRIPTION

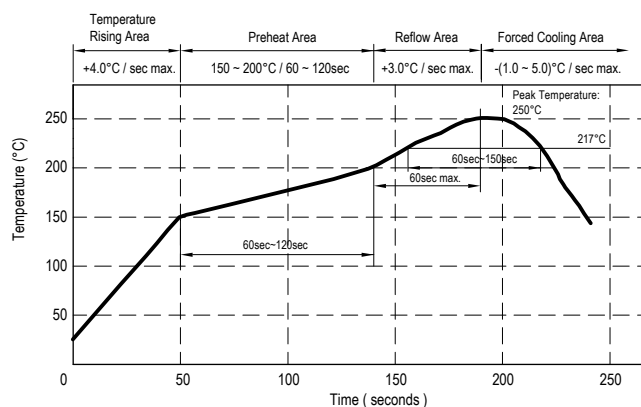
- Magnetic shield construction
- Ferrite core with tin plating terminals
- Comply with RoHS' requirement
- Product weight: 0.02 ~ 0.50g (ref.)

GENERAL SPECIFICATION

- Storage temp.: -10 ~ +40°C
- Humidity: 30 ~ 70% R.H.
- Operating temp.: -25°C ~ +120°C (Temp. rise included)
- Moisture Sensitivity Level: 2
- Recommended IR reflow:
 - Peak Temp.: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Magnetic resin coating onto coil with semi-shielded effect to reduce leakage field.
- Metalize termination Sn/Ni/Ag plating onto ferrite with excellent solder ability.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.



TPI5040 CT Series

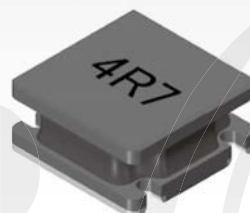
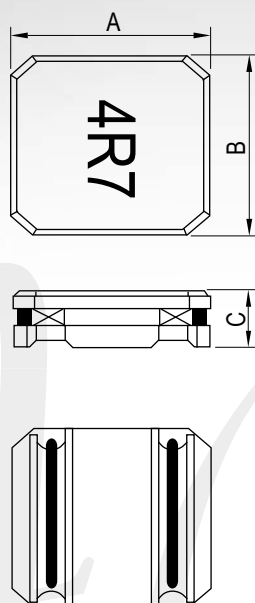
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Test Freq.	Tolerance	DC Resistance (m Ω)		Rated DC Current (A)	
				Max.	Typ.	Idc1	Idc2
TPI5040CT1R5 $\square$ - $\square$ $\square$	1.5	100 kHz, 1V	N	18	15	6.00	3.60
TPI5040CT2R2 $\square$ - $\square$ $\square$	2.2	100 kHz, 1V	N	20	17	4.60	3.50
TPI5040CT3R3 $\square$ - $\square$ $\square$	3.3	100 kHz, 1V	M	26	22	3.80	3.30
TPI5040CT4R7 $\square$ - $\square$ $\square$	4.7	100 kHz, 1V	M	35	29	3.30	3.10
TPI5040CT6R8 $\square$ - $\square$ $\square$	6.8	100 kHz, 1V	M	59	49	2.60	2.30
TPI5040CT8R2 $\square$ - $\square$ $\square$	8.2	100 kHz, 1V	M	65	54	2.40	2.20
TPI5040CT100 $\square$ - $\square$ $\square$	10.0	100 kHz, 1V	M	67	56	2.30	2.10
TPI5040CT150 $\square$ - $\square$ $\square$	15.0	100 kHz, 1V	M	96	80	2.00	1.80
TPI5040CT220 $\square$ - $\square$ $\square$	22.0	100 kHz, 1V	M	151	126	1.60	1.40
TPI5040CT270 $\square$ - $\square$ $\square$	27.0	100 kHz, 1V	M	198	165	1.40	1.30
TPI5040CT330 $\square$ - $\square$ $\square$	33.0	100 kHz, 1V	M	216	180	1.30	1.20
TPI5040CT470 $\square$ - $\square$ $\square$	47.0	100 kHz, 1V	M	324	270	1.10	0.90

1. Inductance is measured in HP-4285A Precision LCR Meter.
2. RDC is measured in HP 4338B milli ohm meter.(or equivalent).
3. Tolerance: M=20%, N=30% (Table shows stock tolerances in $\square$).
4. Idc1: Based on inductance change ($\Delta L/L_0$: $\leq -30\%$)
5. Idc2: Based on temperature rise (ΔT : 40°C typ.)

TPI6020/6028 CT Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C
TPI6020 CT	6.00±0.20	6.00±0.20	2.00 max.
TPI6028 CT	6.00±0.20	6.00±0.20	2.80 max.

DESCRIPTION

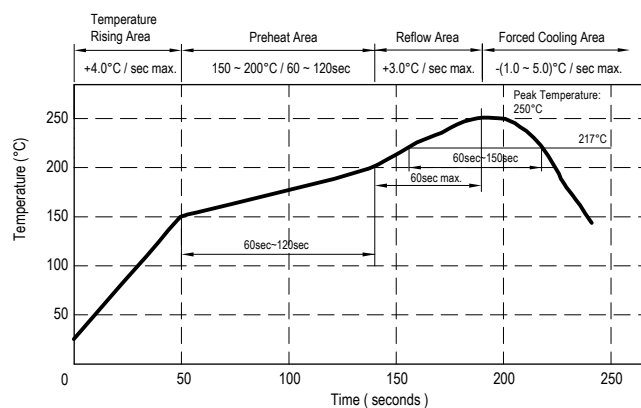
- Magnetic shield construction
- Ferrite core with tin plating terminals
- Comply with RoHS' requirement
- Product weight: 0.02 ~ 0.50g (ref.)

GENERAL SPECIFICATION

- Storage temp.: -10 ~ +40°C
- Humidity: 30 ~ 70% R.H.
- Operating temp.: -25°C ~ +120°C (Temp. rise included)
- Moisture Sensitivity Level: 2
- Recommended IR reflow:
 - Peak Temp.: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Magnetic resin coating onto coil with semi-shielded effect to reduce leakage field.
- Metalize termination Sn/Ni/Ag plating onto ferrite with excellent solder ability.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.



TPI6020/6028 CT Series

ELECTRICAL CHARACTERISTICS

■ TPI6020 CT Series

DWG. No.	Inductance (μ H)	Test Freq.	Tolerance	DC Resistance (m Ω)		Rated DC Current (A)	
				Max.	Typ.	Idc1	Idc2
TPI6020CTR50□-□□	0.5	100 kHz, 1V	N	12	9	7.00	5.20
TPI6020CTR80□-□□	0.8	100 kHz, 1V	N	16	12	6.00	4.10
TPI6020CT1R5□-□□	1.5	100 kHz, 1V	N	22	17	4.00	3.60
TPI6020CT2R2□-□□	2.2	100 kHz, 1V	N	31	24	3.50	2.90
TPI6020CT3R3□-□□	3.3	100 kHz, 1V	N	39	30	2.80	2.80
TPI6020CT4R7□-□□	4.7	100 kHz, 1V	M	52	43	2.40	2.20
TPI6020CT5R6□-□□	5.6	100 kHz, 1V	M	66	55	2.20	2.00
TPI6020CT6R8□-□□	6.8	100 kHz, 1V	M	72	60	2.00	1.80
TPI6020CT100□-□□	10.0	100 kHz, 1V	M	108	90	1.90	1.50
TPI6020CT150□-□□	15.0	100 kHz, 1V	M	144	120	1.30	1.20
TPI6020CT220□-□□	22.0	100 kHz, 1V	M	204	170	1.10	1.00
TPI6020CT330□-□□	33.0	100 kHz, 1V	M	372	310	0.90	0.90
TPI6020CT470□-□□	47.0	100 kHz, 1V	M	444	370	0.80	0.80

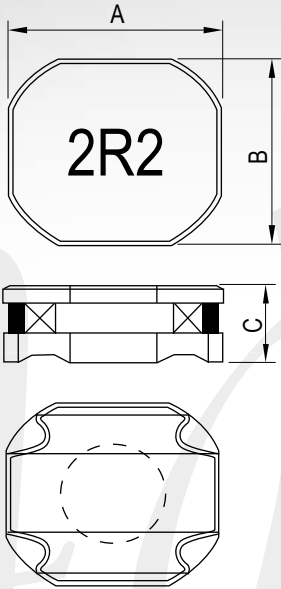
■ TPI6028 CT Series

DWG. No.	Inductance (μ H)	Test Freq.	Tolerance	DC Resistance (m Ω)		Rated DC Current (A)	
				Max.	Typ.	Idc1	Idc2
TPI6028CTR90□-□□	0.9	100 kHz, 1V	N	17	13	6.70	4.60
TPI6028CT1R5□-□□	1.5	100 kHz, 1V	N	21	16	5.10	4.20
TPI6028CT2R2□-□□	2.2	100 kHz, 1V	N	26	20	4.20	3.70
TPI6028CT3R0□-□□	3.0	100 kHz, 1V	N	30	23	3.60	3.40
TPI6028CT3R3□-□□	3.3	100 kHz, 1V	M	34	28	3.50	3.40
TPI6028CT3R9□-□□	3.9	100 kHz, 1V	M	37	31	2.70	3.00
TPI6028CT4R7□-□□	4.7	100 kHz, 1V	M	37	31	2.70	3.00
TPI6028CT6R0□-□□	6.0	100 kHz, 1V	M	48	40	2.50	2.50
TPI6028CT6R2□-□□	6.2	100 kHz, 1V	M	62	52	2.20	2.20
TPI6028CT6R8□-□□	6.8	100 kHz, 1V	M	62	52	2.20	2.20
TPI6028CT100□-□□	10.0	100 kHz, 1V	M	78	65	1.90	1.90
TPI6028CT150□-□□	15.0	100 kHz, 1V	M	114	95	1.60	1.80
TPI6028CT220□-□□	22.0	100 kHz, 1V	M	162	135	1.30	1.40
TPI6028CT330□-□□	33.0	100 kHz, 1V	M	264	220	1.10	1.10
TPI6028CT470□-□□	47.0	100 kHz, 1V	M	360	300	1.00	0.92
TPI6028CT680□-□□	68.0	100 kHz, 1V	M	504	420	0.80	0.77
TPI6028CT101□-□□	100.0	100 kHz, 1V	M	720	600	0.65	0.66

- Inductance is measured in HP-4285A Precision LCR Meter.
- RDC is measured in HP 4338B milli ohm meter.(or equivalent).
- Tolerance: M=20%, N=30% (Table shows stock tolerances in □).
- Idc1: Based on inductance change ($\Delta L/L_0$: $\leq$ -30%)
- Idc2: Based on temperature rise (ΔT : 40°C typ.)

TPI6045 CT Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C
TPI6045 CT	6.00±0.20	6.00±0.20	4.50 max.

DESCRIPTION

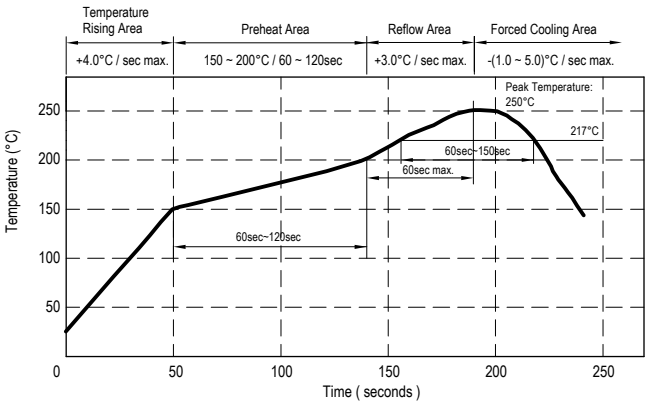
- Magnetic shield construction
- Ferrite core with tin plating terminals
- Comply with RoHS' requirement
- Product weight: 0.02 ~ 0.50g (ref.)

FEATURES & APPLICATION

- Magnetic resin coating onto coil with semi-shielded effect to reduce leakage field.
- Metalize termination Sn/Ni/Ag plating onto ferrite with excellent solder ability.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -10 ~ +40°C
- Humidity: 30 ~ 70% R.H.
- Operating temp.: -25°C ~ +120°C (Temp. rise included)
- Moisture Sensitivity Level: 2
- Recommended IR reflow:
 - Peak Temp.: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



TPI6045 CT Series

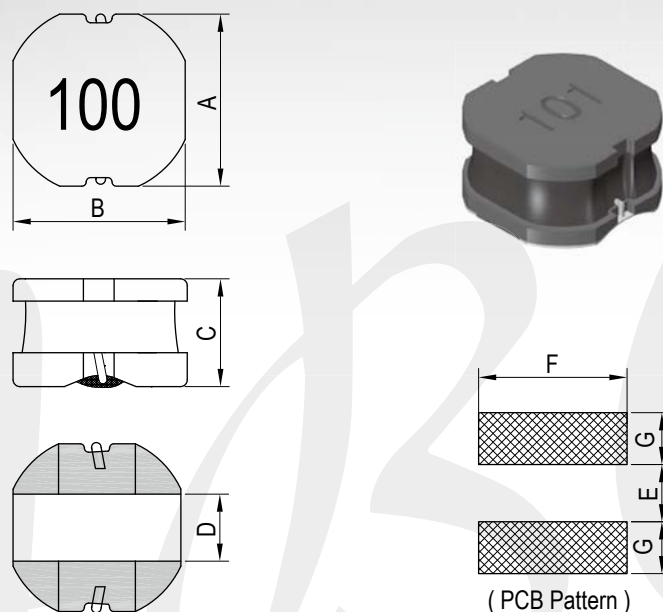
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Test Freq.	Tolerance	DC Resistance (m Ω)		Rated DC Current (A)	
				Max.	Typ.	Idc1	Idc2
TPI6045CT1R0 □-□□	1.0	100 kHz, 1V	N	13	10	8.60	6.50
TPI6045CT1R3 □-□□	1.3	100 kHz, 1V	N	14	11	8.00	6.00
TPI6045CT1R8 □-□□	1.8	100 kHz, 1V	N	16	12	7.00	5.30
TPI6045CT2R2 □-□□	2.2	100 kHz, 1V	N	17	13	6.10	5.00
TPI6045CT3R0 □-□□	3.0	100 kHz, 1V	N	22	17	5.00	4.80
TPI6045CT3R3 □-□□	3.3	100 kHz, 1V	N	22	17	4.50	4.50
TPI6045CT4R5 □-□□	4.5	100 kHz, 1V	N	30	23	4.30	3.80
TPI6045CT4R7 □-□□	4.7	100 kHz, 1V	N	30	23	4.00	3.70
TPI6045CT5R6 □-□□	5.6	100 kHz, 1V	N	34	26	3.80	3.60
TPI6045CT6R3 □-□□	6.3	100 kHz, 1V	N	34	26	3.80	3.60
TPI6045CT6R8 □-□□	6.8	100 kHz, 1V	N	44	34	3.60	3.50
TPI6045CT8R2 □-□□	8.2	100 kHz, 1V	N	53	41	3.20	3.10
TPI6045CT100 □-□□	10.0	100 kHz, 1V	M	54	45	3.10	3.00
TPI6045CT150 □-□□	15.0	100 kHz, 1V	M	96	80	2.30	2.30
TPI6045CT220 □-□□	22.0	100 kHz, 1V	M	134	112	1.90	1.90
TPI6045CT330 □-□□	33.0	100 kHz, 1V	M	204	170	1.50	1.50
TPI6045CT470 □-□□	47.0	100 kHz, 1V	M	252	210	1.30	1.30
TPI6045CT560 □-□□	56.0	100 kHz, 1V	M	324	270	1.20	1.20
TPI6045CT680 □-□□	68.0	100 kHz, 1V	M	390	325	1.00	1.00
TPI6045CT101 □-□□	100.0	100 kHz, 1V	M	552	460	0.90	0.90
TPI6045CT221 □-□□	220.0	100 kHz, 1V	M	1104	920	0.55	0.50

1. Inductance is measured in HP-4285A Precision LCR Meter.
2. RDC is measured in HP 4338B milli ohm meter.(or equivalent).
3. Tolerance: M=20%, N=30% (Table shows stock tolerances in □).
4. Idc1: Based on inductance change ($\Delta L/L_0$: $\leq -30\%$)
5. Idc2: Based on temperature rise (ΔT : 40°C typ.)

RN6045-F/8040/1060-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G
RN6045-F	6.00±0.20	6.00±0.20	4.50 max.	2.50 ref.	2.30 ref.	6.00 ref.	2.00 ref.
RN8040-L	8.15±0.20	7.90±0.20	4.00 max.	3.00 ref.	3.00 ref.	8.20 ref.	2.60 ref.
RN1060-L	9.80±0.30	10.00±0.30	6.00 max.	3.30 ref.	3.10 ref.	10.20 ref.	3.50 ref.

DESCRIPTION

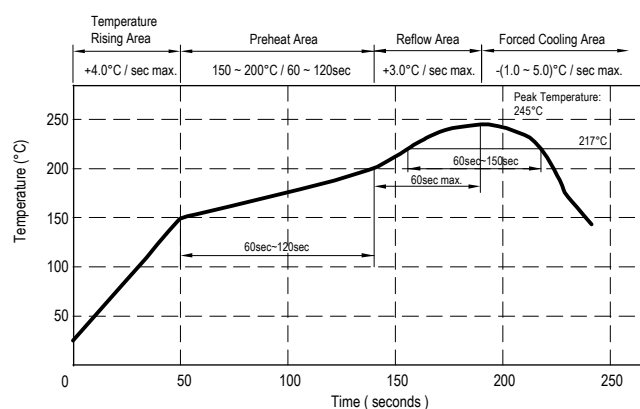
- Ferrite drum core construction.
- Magnetically epoxy.
- Enamelled copper wire: F & H class
- Product weight: 0.56 (6045) / 0.90 (8040) / 2.0 (1060)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs. (1060)
250°C.10 secs. (6045, 8040)
- Recommended IR Reflow:
Peak Temp: 245°C max. (1060)
250°C max. (6045,8040)
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Magnetic resin coating onto coil with semi-shielded effect to reduce leakage field.
- Metalize termination Sn/Ni/Ag plating onto ferrite with excellent solder ability.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.



RN6045-F/8040/1060-L Series

ELECTRICAL CHARACTERISTICS

■ RN6045-F Series

DWG. No.	Inductance (μ H)	RDC (m Ω) max.	Isat (A) max.	Irms (A) max.
RN60451R0YF□-□□□	1.0 $\pm$ 30%	13.9	8.50	4.20
RN60451R3YF□-□□□	1.3 $\pm$ 30%	17.0	8.00	4.00
RN60451R8YF□-□□□	1.8 $\pm$ 30%	19.8	7.00	3.70
RN60452R2YF□-□□□	2.2 $\pm$ 30%	25.1	6.00	3.50
RN60453R3YF□-□□□	3.3 $\pm$ 30%	30.2	5.00	3.20
RN60454R7YF□-□□□	4.7 $\pm$ 30%	37.6	4.00	3.00
RN60456R8YF□-□□□	6.8 $\pm$ 30%	47.3	3.80	2.80
RN60458R2YF□-□□□	8.2 $\pm$ 30%	55.0	3.30	2.70
RN6045100MF□-□□□	10.0 $\pm$ 20%	58.6	3.00	2.50
RN6045120MF□-□□□	12.0 $\pm$ 20%	85.0	2.60	2.20
RN6045150MF□-□□□	15.0 $\pm$ 20%	95.8	2.30	1.90
RN6045220MF□-□□□	22.0 $\pm$ 20%	142.0	1.90	1.50
RN6045330MF□-□□□	33.0 $\pm$ 20%	188.0	1.50	1.40
RN6045470MF□-□□□	47.0 $\pm$ 20%	257.0	1.30	1.10
RN6045680MF□-□□□	68.0 $\pm$ 20%	351.0	1.00	0.90
RN6045101MF□-□□□	100.0 $\pm$ 20%	494.0	0.80	0.70

■ RN8040-L Series

DWG. No.	Inductance (μ H)	RDC (m Ω)		Isat (A) max.	Irms (A) max.
		ref.	max.		
RN8040R50YLB-□□□	0.5 $\pm$ 30%	5.7	7.0	12.00	10.00
RN80401R0YLB-□□□	1.0 $\pm$ 30%	6.9	10.0	11.00	7.80
RN80401R5YLB-□□□	1.5 $\pm$ 30%	8.6	11.0	8.20	7.00
RN80402R2YLB-□□□	2.2 $\pm$ 30%	10.5	13.0	7.40	6.30
RN80402R7YLB-□□□	2.7 $\pm$ 30%	16.2	21.0	5.50	5.60
RN80403R6YLB-□□□	3.6 $\pm$ 30%	16.5	22.0	5.30	4.90
RN80404R7YLB-□□□	4.7 $\pm$ 30%	18.3	24.0	4.70	4.10
RN80406R8YLB-□□□	6.8 $\pm$ 30%	25.1	33.0	4.20	3.90
RN80408R2YLB-□□□	8.2 $\pm$ 30%	35.0	45.0	4.00	3.70
RN8040100MLB-□□□	10.0 $\pm$ 20%	37.6	50.0	3.40	3.10
RN8040150MLB-□□□	15.0 $\pm$ 20%	53.6	70.0	2.70	2.40
RN8040220MLB-□□□	22.0 $\pm$ 20%	76.3	100.0	2.20	2.20
RN8040330MLB-□□□	33.0 $\pm$ 20%	112.0	145.0	1.90	1.70
RN8040470MLB-□□□	47.0 $\pm$ 20%	145.0	190.0	1.50	1.40
RN8040680MLB-□□□	68.0 $\pm$ 20%	212.0	275.0	1.20	1.10
RN8040101MLB-□□□	100.0 $\pm$ 20%	310.0	400.0	1.00	1.00

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. Inductance test freq. : 100kHz / 1V

5. Isat base on $\Delta L/L_0 A=30\%$ max.

6. Irms base on Temp. rise 40°C max.

RN6045-F/8040/1060-L Series

■ RN1060-L Series

DWG. No.	Inductance (μ H)	RDC (m Ω)		Isat (A) typ.	Irms (A) max.
		ref.	max.		
RN10601R5YL □-□□□	1.5 $\pm$ 30%	7.6	10.0	13.00	10.00
RN10602R0YL □-□□□	2.0 $\pm$ 30%	10.0	13.0	11.00	8.00
RN10603R3YL □-□□□	3.3 $\pm$ 30%	13.5	18.0	8.50	7.20
RN10604R7YL □-□□□	4.7 $\pm$ 30%	15.4	20.0	7.60	6.30
RN10606R8YL □-□□□	6.8 $\pm$ 30%	18.4	24.0	6.60	5.80
RN1060100ML □-□□□	10.0 $\pm$ 20%	22.3	29.0	5.20	5.40
RN1060150ML □-□□□	15.0 $\pm$ 20%	27.6	36.0	4.50	4.50
RN1060180ML □-□□□	18.0 $\pm$ 20%	32.0	43.0	3.80	3.85
RN1060220ML □-□□□	22.0 $\pm$ 20%	35.1	53.0	3.40	3.40
RN1060330ML □-□□□	33.0 $\pm$ 20%	46.0	72.0	2.80	3.15
RN1060470ML □-□□□	47.0 $\pm$ 20%	80.5	110.0	2.30	2.50
RN1060101ML □-□□□	100.0 $\pm$ 20%	154.0	208.0	1.70	1.70
RN1060151ML □-□□□	150.0 $\pm$ 20%	235.0	300.0	1.35	1.25
RN1060221ML □-□□□	220.0 $\pm$ 20%	354.0	460.0	1.20	1.00
RN1060331ML □-□□□	330.0 $\pm$ 20%	512.0	620.0	0.90	0.90
RN1060471ML □-□□□	470.0 $\pm$ 20%	731.0	950.0	0.80	0.80

1. □ : Packaging information: □ Code
2. "- □□□": Reference code
3. Electrical specifications at 25°C

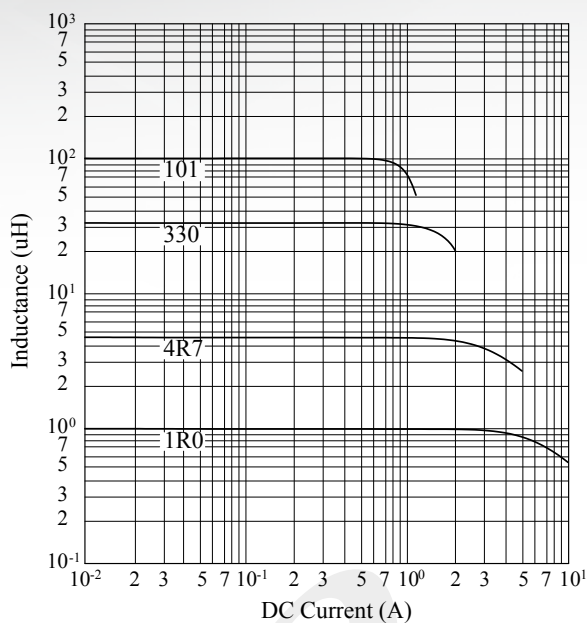
4. Inductance test freq. : 100kHz / 1V
5. Isat base on $\Delta L/L0A=30\%$ typ.
6. Irms base on Temp. rise 40°C max.

RN6045-F/8040/1060-L Series

CURVE

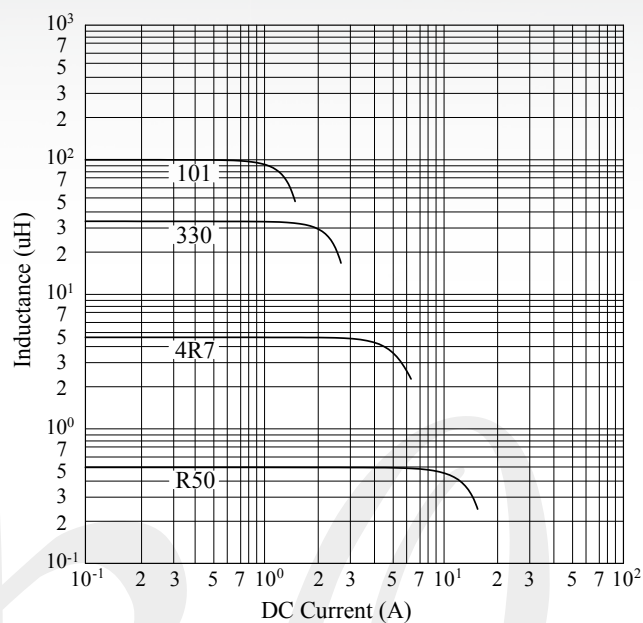
■ RN6045-F Series

@ Inductance VS. DC Current Curve



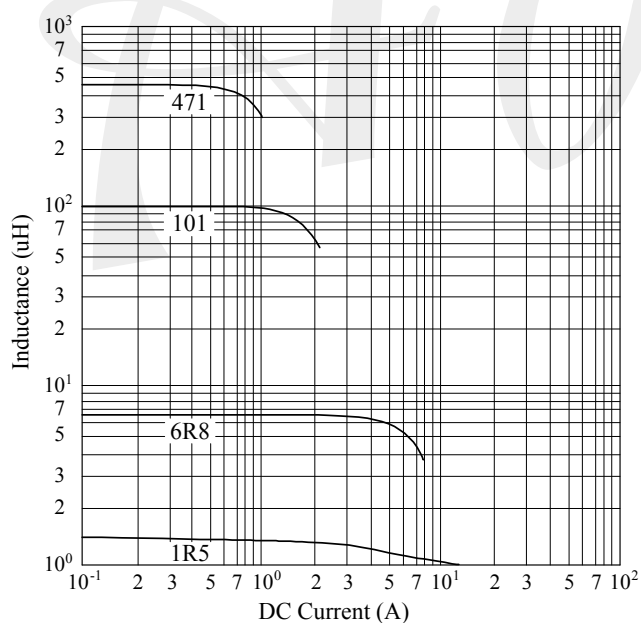
■ RN8040-L Series

@ Inductance VS. DC Current Curve



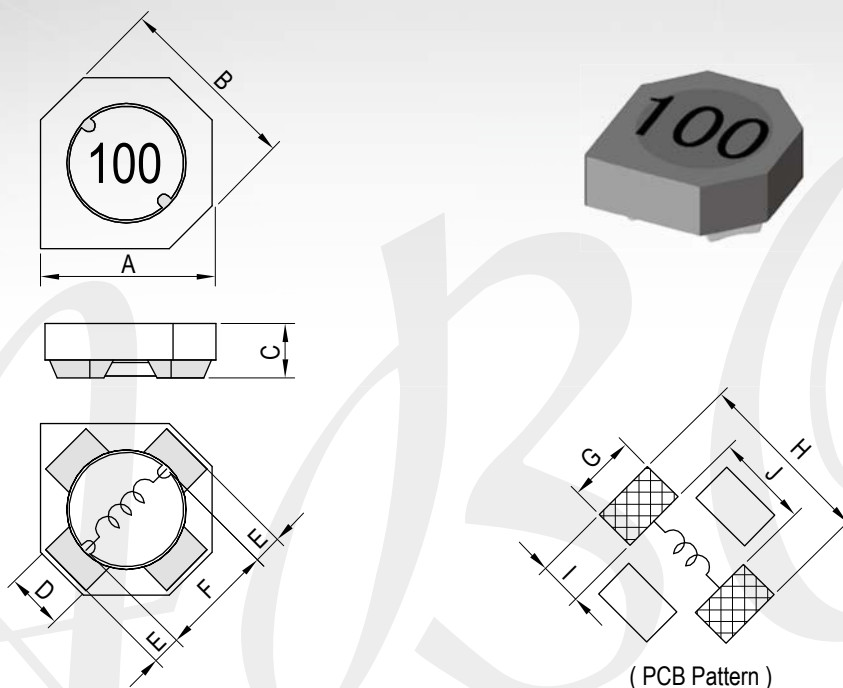
■ RN1060-L Series

@ Inductance VS. DC Current Curve



SU4018-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I	J
SU4018-L	4.30±0.20	4.50±0.20	1.80±0.30	1.50 typ.	0.50 typ.	3.30 typ.	1.70 ref.	5.30 ref.	1.00 ref.	3.30 ref.

DESCRIPTION

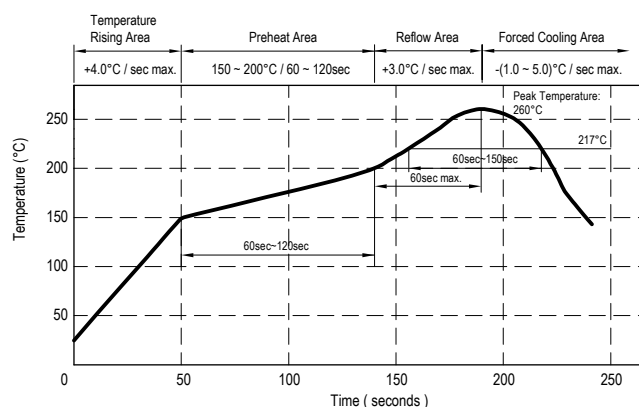
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: H class
- Product weight: 0.145g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Glazing base termination offer excellent terminal strength.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40 °C~ +125°C (Temp. rise included)
- Resistance to solder heat: 260°C.10 secs.
- Recommended IR Reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



SU4018-L Series

ELECTRICAL CHARACTERISTICS

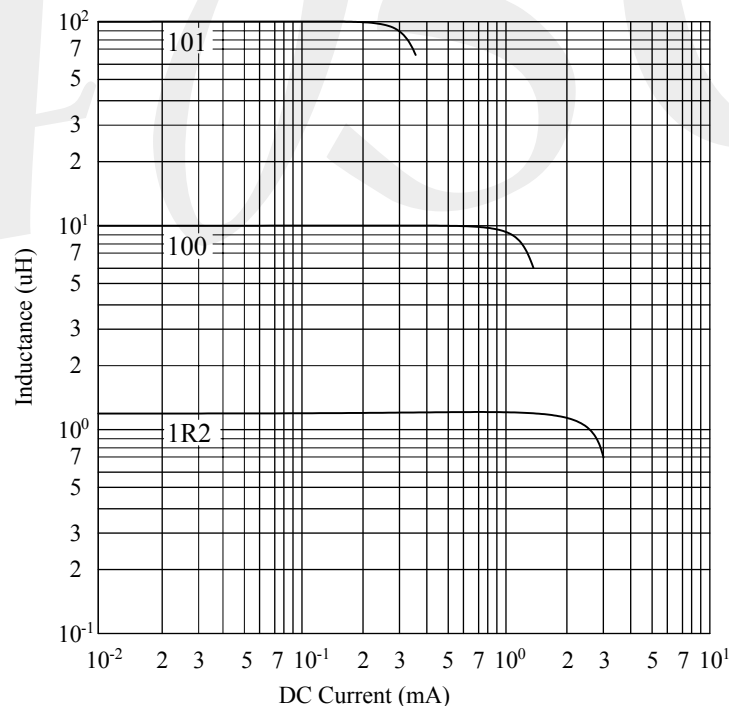
DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		RDC ($m\Omega$)		SRF (MHz) typ.	I _{rms} (mA) typ.	I _{sat} (mA) typ.
			L	Q	typ.	max.			
SU40181R2YL□-□□□	1.20 $\pm$ 30%	10	100k	7.96M	30	40	120	2700	2200
SU40183R0YL□-□□□	3.00 $\pm$ 30%	10	100k	7.96M	45	60	80	2050	1500
SU40184R7YL□-□□□	4.70 $\pm$ 30%	10	100k	7.96M	58	78	60	1800	1300
SU40186R8YL□-□□□	6.80 $\pm$ 30%	10	100k	7.96M	80	105	45	1500	1050
SU4018100YL□-□□□	10.00 $\pm$ 30%	20	100k	2.52M	117	160	30	1200	800
SU4018150YL□-□□□	15.00 $\pm$ 30%	24	100k	2.52M	175	240	26	900	600
SU4018220YL□-□□□	22.00 $\pm$ 30%	26	100k	2.52M	255	350	20	800	500
SU4018330YL□-□□□	33.00 $\pm$ 30%	22	100k	2.52M	310	400	18	650	450
SU4018470YL□-□□□	47.00 $\pm$ 30%	24	100k	2.52M	510	660	14	550	400
SU4018680YL□-□□□	68.00 $\pm$ 30%	22	100k	2.52M	750	980	10	480	330
SU4018101YL□-□□□	100.00 $\pm$ 30%	60	100k	796k	1170	1500	6	320	255

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

- Inductance Test Freq.: 100kHz / 0.1V
- I_{rms} base on Temp. rise 30°C typ.
- I_{sat} base on $\Delta L/L_0 = 35\%$ typ.

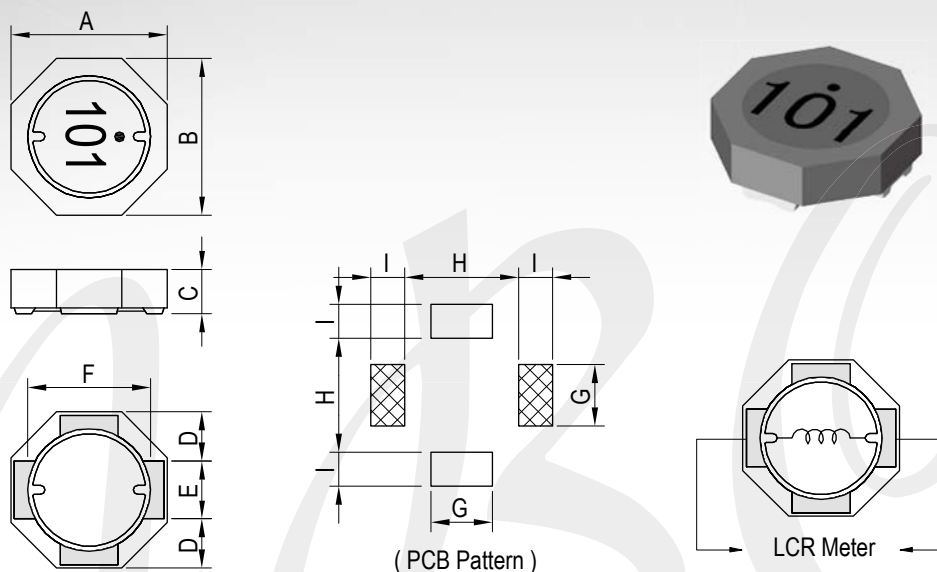
CURVE

@ Inductance VS. DC Current Curve



SU5016/5018/5028-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I
SU5016-L	5.20±0.20	5.20±0.20	1.60±0.20	1.70 typ.	1.80 typ.	3.90 typ.	2.00 ref.	3.70 ref.	1.10 ref.
SU5018-L	5.20±0.20	5.20±0.20	1.80±0.20	1.70 typ.	1.80 typ.	3.90 typ.	2.00 ref.	3.70 ref.	1.10 ref.
SU5028-L	5.20±0.20	5.20±0.20	2.80±0.20	1.70 typ.	1.80 typ.	3.90 typ.	2.00 ref.	3.70 ref.	1.10 ref.

DESCRIPTION

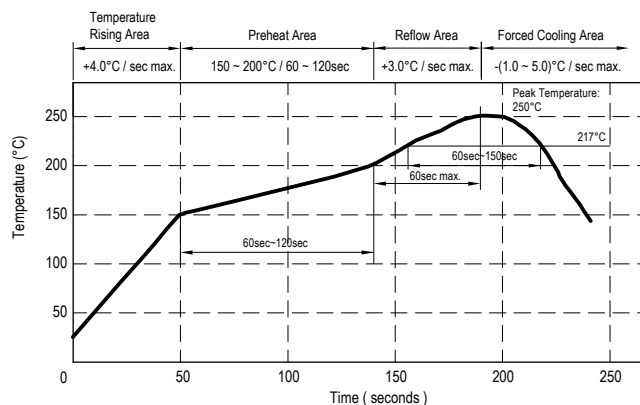
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F, H class
- Product weight: 0.15 (5016) / 0.17 (5018) / 0.27 (5028)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -55°C ~ +125°C (5028)
-40°C ~ +125°C (5016, 5018)
- Operating temp.: -40 °C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs. (5028)
260°C.10 secs. (5016, 5018)
- Recommended IR Reflow:
Peak Temp: 250°C max. (5028)
Peak Temp: 260°C max. (5016, 5018)
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Glazing base termination offer excellent terminal strength.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.



SU5016/5018/5028-L Series

ELECTRICAL CHARACTERISTICS

■ SU5016-L Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		RDC ($m\Omega$)		SRF (MHz) typ.	Irms (mA) max.	Isat (mA) typ.
			L	Q	typ.	max.			
SU50161R8YL□-□□□	1.8 $\pm$ 30%	9	100k	7.96M	24	32	100	1750	1700
SU50163R3YL□-□□□	3.3 $\pm$ 30%	9	100k	7.96M	35	48	80	1550	1500
SU50164R7YL□-□□□	4.7 $\pm$ 30%	9	100k	7.96M	43	57	60	1300	1200
SU50166R8YL□-□□□	6.8 $\pm$ 30%	8	100k	7.96M	50	78	50	1200	1100
SU5016100YL□-□□□	10.0 $\pm$ 30%	15	100k	2.52M	84	110	40	1000	900
SU5016150YL□-□□□	15.0 $\pm$ 30%	15	100k	2.52M	130	170	32	800	720
SU5016220YL□-□□□	22.0 $\pm$ 30%	15	100k	2.52M	195	250	28	650	560
SU5016330YL□-□□□	33.0 $\pm$ 30%	13	100k	2.52M	300	375	22	540	500
SU5016470YL□-□□□	47.0 $\pm$ 30%	18	100k	2.52M	390	480	18	460	420
SU5016680YL□-□□□	68.0 $\pm$ 30%	18	100k	2.52M	560	700	15	360	330
SU5016101YL□-□□□	100.0 $\pm$ 30%	18	100k	796k	850	1050	12	300	270

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. Inductance test condition 100kHz/0.1V

5. Irms base on Temp. rise 40°C max.

6. Isat base on $\Delta L/L_{0A}=35\%$ typ.

■ SU5018-L Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		RDC ($m\Omega$)		SRF (MHz) typ.	Irms (mA) max.	Isat (mA) typ.
			L	Q	typ.	max.			
SU50181R0YL□-□□□	1.0 $\pm$ 30%	9	100k	7.96M	12.5	16.5	200	2800	2850
SU50181R5YL□-□□□	1.5 $\pm$ 30%	9	100k	7.96M	15.5	20.5	160	2500	2400
SU50182R2YL□-□□□	2.2 $\pm$ 30%	10	100k	7.96M	20.5	27.0	130	2300	2100
SU50183R5YL□-□□□	3.5 $\pm$ 30%	9	100k	7.96M	32.0	42.0	90	2100	1700
SU50184R7YL□-□□□	4.7 $\pm$ 30%	8.5	100k	7.96M	36.0	47.0	80	2000	1550
SU50186R8YL□-□□□	6.8 $\pm$ 30%	7.5	100k	7.96M	50.0	65.0	60	1450	1200
SU5018100YL□-□□□	10.0 $\pm$ 30%	12	100k	2.52M	65.0	85.0	50	1250	1050
SU5018150YL□-□□□	15.0 $\pm$ 30%	12	100k	2.52M	100.0	130.0	40	950	800
SU5018220YL□-□□□	22.0 $\pm$ 30%	12	100k	2.52M	160.0	210.0	28	680	650
SU5018330YL□-□□□	33.0 $\pm$ 30%	13	100k	2.52M	220.0	290.0	23	660	560
SU5018470YL□-□□□	47.0 $\pm$ 30%	13	100k	2.52M	330.0	430.0	18	540	450
SU5018680YL□-□□□	68.0 $\pm$ 30%	12	100k	2.52M	480.0	620.0	16	370	360
SU5018101YL□-□□□	100.0 $\pm$ 30%	15	100k	796k	620.0	780.0	15	320	310

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. Inductance test condition 100kHz/0.1V

5. Irms base on Temp. rise 30°C max.

6. Isat base on $\Delta L/L_{0A}=35\%$ typ.

SU5016/5018/5028-L Series

■ SU5028-L Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		RDC ($m\Omega$)		SRF (MHz) typ.	I _{rms} (mA) typ.	I _{sat} (mA) typ.
			L	Q	typ.	max.			
SU50281R2YL□-□□□	1.2 $\pm$ 30%	10	100k	7.96M	16.8	22	200	3500	3400
SU50282R2YL□-□□□	2.2 $\pm$ 30%	10	100k	7.96M	21.0	27	130	3200	2500
SU50283R3YL□-□□□	3.3 $\pm$ 30%	10	100k	7.96M	24.0	32	90	2800	2100
SU50284R7YL□-□□□	4.7 $\pm$ 30%	9	100k	7.96M	32.0	45	50	2200	1850
SU50286R8YL□-□□□	6.8 $\pm$ 30%	10	100k	7.96M	42.0	56	55	2000	1550
SU5028100YL□-□□□	10.0 $\pm$ 30%	18	100k	2.52M	63.0	85	25	1800	1400
SU5028150YL□-□□□	15.0 $\pm$ 30%	18	100k	2.52M	108.0	140	23	1100	1000
SU5028220YL□-□□□	22.0 $\pm$ 30%	15	100k	2.52M	162.0	210	18	950	850
SU5028330YL□-□□□	33.0 $\pm$ 30%	15	100k	2.52M	203.0	260	16	800	680
SU5028470YL□-□□□	47.0 $\pm$ 30%	13	100k	2.52M	285.0	360	13	700	620
SU5028680YL□-□□□	68.0 $\pm$ 30%	13	100k	2.52M	450.0	550	10	560	460
SU5028101YL□-□□□	100.0 $\pm$ 30%	15	100k	796k	625.0	800	8	470	420

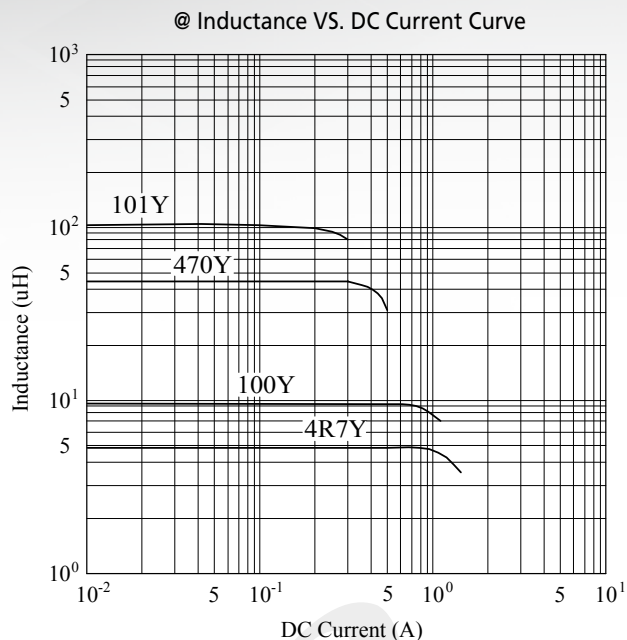
1. □ : Packaging information: □ Code
2. "- □□□": Reference code
3. Electrical specifications at 25°C

4. Inductance test condition 100kHz/0.1V
5. I_{rms} base on Temp. rise 40°C typ.
6. I_{sat} base on $\Delta L/L_0$ =35% typ.

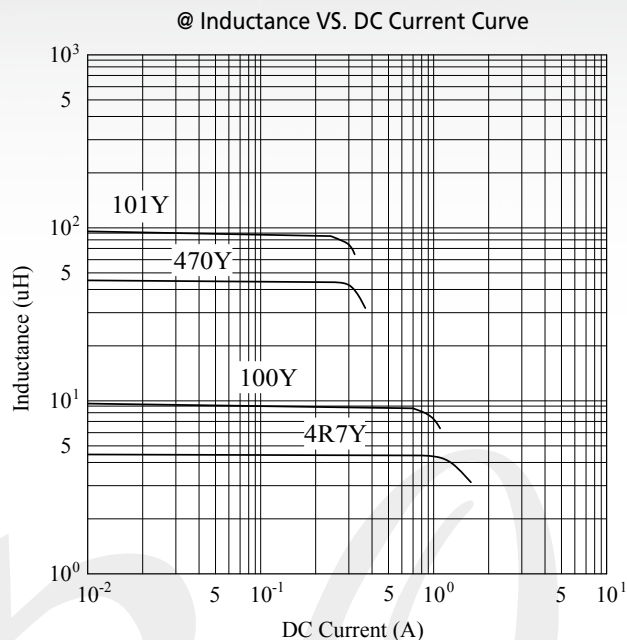
SU5016/5018/5028-L Series

CURVE

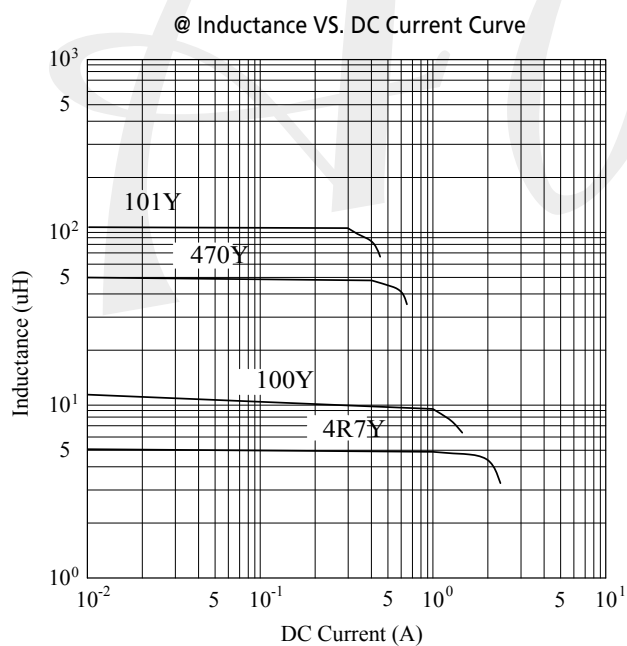
■ SU5016-L Series



■ SU5018-L Series

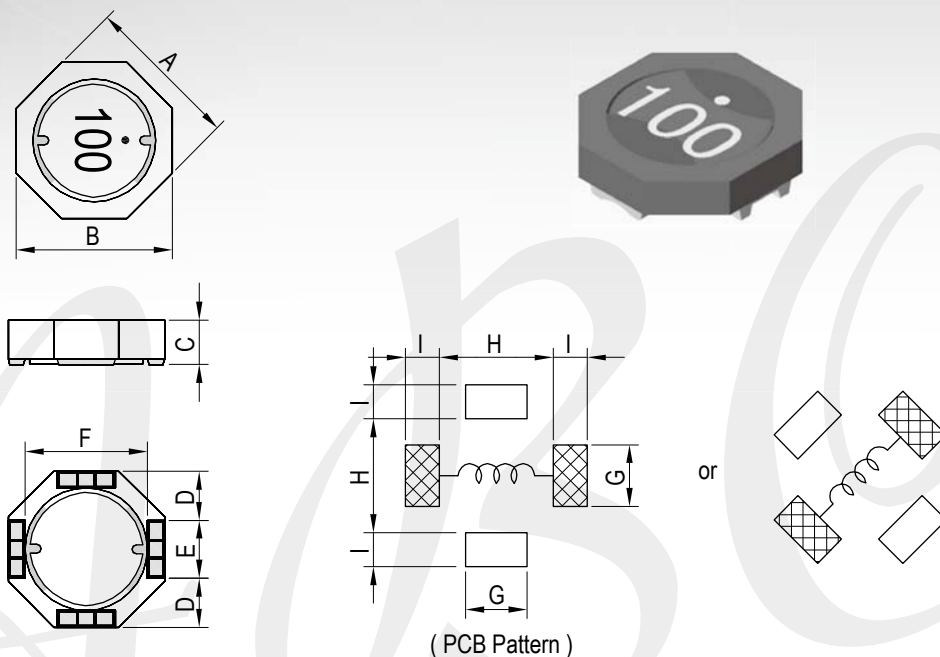


■ SU5028-L Series



SU6018/6025-F Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I
SU6018-F	6.20±0.30	6.50±0.30	1.80±0.20	2.15 typ.	2.20 typ.	4.90 typ.	2.40 ref.	4.90 ref.	1.10 ref.
SU6025-F	6.20±0.30	6.50±0.30	2.50±0.30	2.15 typ.	2.20 typ.	4.90 typ.	2.40 ref.	4.90 ref.	1.10 ref.

DESCRIPTION

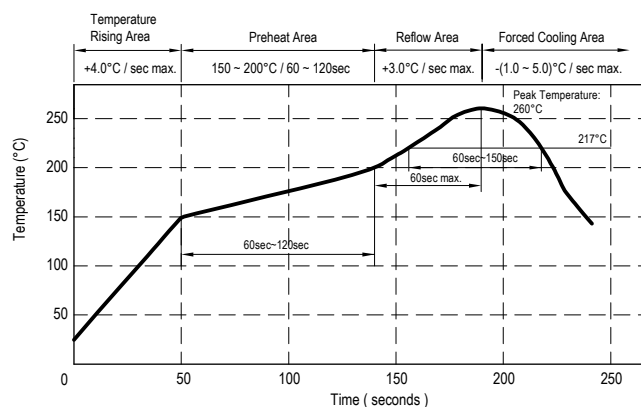
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F, H class
- Product weight: 0.20 (6018) / 0.30 (6025)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Glazing base termination offer excellent terminal strength.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40 °C~ +125°C (Temp. rise included)
- Resistance to solder heat: 260°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 260°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



SU6018/6025-F Series

ELECTRICAL CHARACTERISTICS

■ SU6018-F Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		RDC ($m\Omega$)		SRF (MHz) typ.	Irms (mA) typ.	Isat (mA) typ.
			L	Q	typ.	max.			
SU60181R2YF□-□□□	1.2 $\pm$ 30%	8	100k	7.96M	19	25	130	3600	2800
SU60181R8YF□-□□□	1.8 $\pm$ 30%	8	100k	7.96M	22	28	90	3000	2300
SU60183R3YF□-□□□	3.3 $\pm$ 30%	8	100k	7.96M	28	36	60	2500	1700
SU60184R7YF□-□□□	4.7 $\pm$ 30%	8	100k	7.96M	32	42	50	2200	1400
SU60186R8YF□-□□□	6.8 $\pm$ 30%	8	100k	7.96M	46	60	40	1900	1200
SU6018100YF□-□□□	10.0 $\pm$ 30%	12	100k	2.52M	68	88	30	1700	1000
SU6018150YF□-□□□	15.0 $\pm$ 30%	12	100k	2.52M	100	130	24	1500	800
SU6018220YF□-□□□	22.0 $\pm$ 30%	14	100k	2.52M	145	190	18	1200	650
SU6018330YF□-□□□	33.0 $\pm$ 30%	10	100k	2.52M	195	255	16	1000	580
SU6018470YF□-□□□	47.0 $\pm$ 30%	12	100k	2.52M	315	410	14	800	460
SU6018680YF□-□□□	68.0 $\pm$ 30%	12	100k	2.52M	455	600	12	620	360
SU6018101YF□-□□□	100.0 $\pm$ 30%	20	100k	796k	550	715	9	550	340

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. Inductance test condition 100kHz/0.1V

5. Irms base on Temp. rise 30°C typ.

6. Isat base on $\Delta L/L_0A=35\%$ typ.

■ SU6025-F Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		RDC ($m\Omega$)		SRF (MHz) typ.	Irms (mA) typ.	Isat (mA) typ.
			L	Q	typ.	max.			
SU60251R2YF□-□□□	1.2 $\pm$ 30%	8	100k	7.96M	14.5	19	120	4000	3200
SU60252R2YF□-□□□	2.2 $\pm$ 30%	8	100k	7.96M	18.5	24	65	3400	2350
SU60253R3YF□-□□□	3.3 $\pm$ 30%	8	100k	7.96M	21.0	27	50	3200	2000
SU60254R7YF□-□□□	4.7 $\pm$ 30%	8	100k	7.96M	27.0	35	42	2700	1550
SU60256R8YF□-□□□	6.8 $\pm$ 30%	8	100k	7.96M	32.0	42	36	2400	1300
SU60258R2YF□-□□□	8.2 $\pm$ 30%	8	100k	7.96M	40.0	52	30	2200	1250
SU6025100YF□-□□□	10.0 $\pm$ 30%	12	100k	2.52M	44.0	57	25	2000	1050
SU6025150YF□-□□□	15.0 $\pm$ 30%	12	100k	2.52M	66.0	86	22	1800	920
SU6025220YF□-□□□	22.0 $\pm$ 30%	12	100k	2.52M	100.0	130	18	1600	700
SU6025330YF□-□□□	33.0 $\pm$ 30%	12	100k	2.52M	140.0	180	12	1200	640
SU6025470YF□-□□□	47.0 $\pm$ 30%	12	100k	2.52M	190.0	250	10	1000	480
SU6025680YF□-□□□	68.0 $\pm$ 30%	10	100k	2.52M	280.0	365	8	800	400
SU6025101YF□-□□□	100.0 $\pm$ 30%	24	100k	796k	385.0	500	7	700	350
SU6025151YF□-□□□	150.0 $\pm$ 30%	30	100k	796k	590.0	770	5	540	280
SU6025221YF□-□□□	220.0 $\pm$ 30%	20	100k	796k	950.0	1250	4	420	240

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. Inductance test condition 100kHz/0.1V

5. Irms base on Temp. rise 30°C typ.

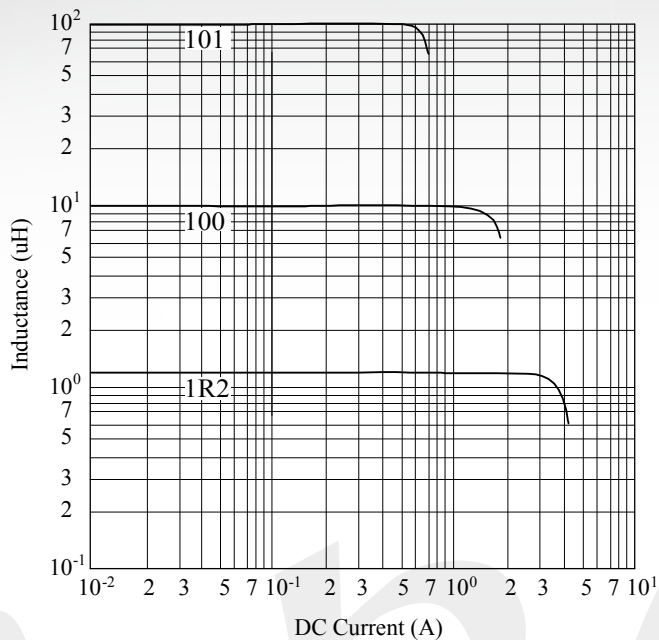
6. Isat base on $\Delta L/L_0A=35\%$ typ.

SU6018/6025-F Series

CURVE

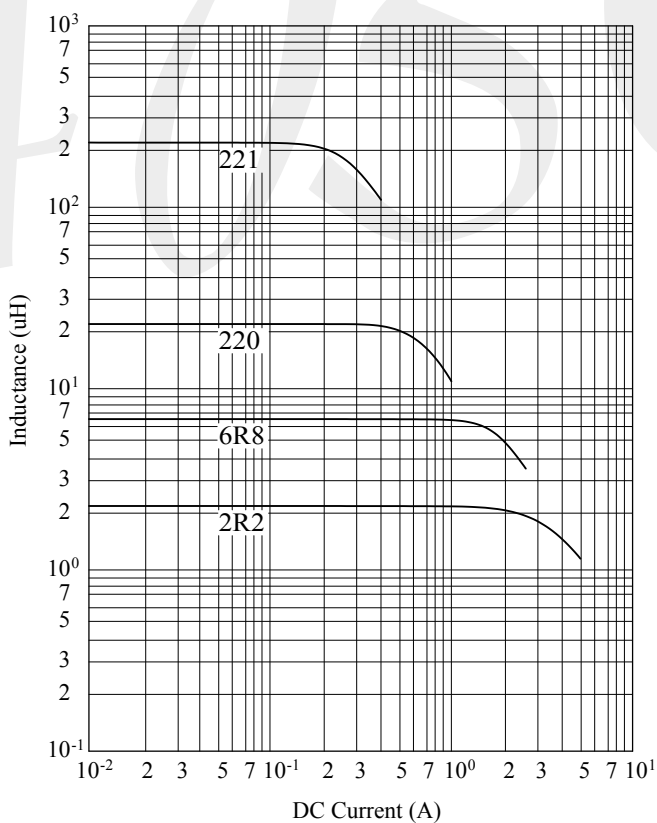
■ SU6018-F Series

@ Inductance VS. DC Current Curve



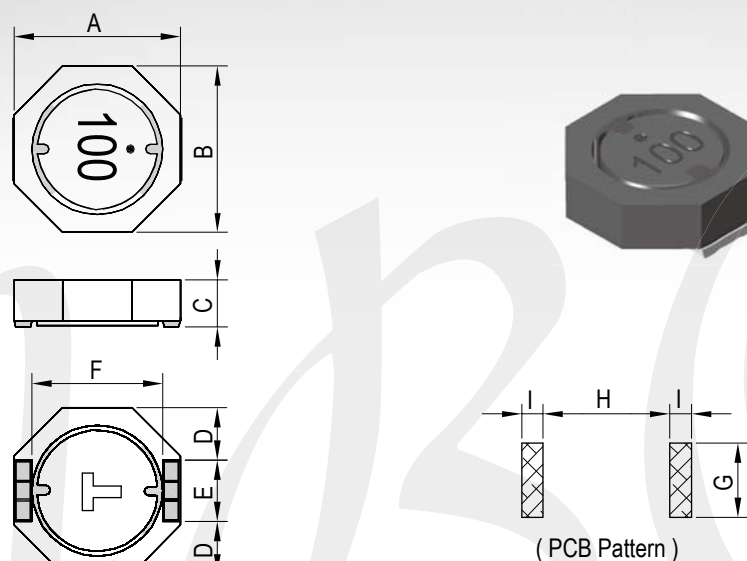
■ SU6025-F Series

@ Inductance VS. DC Current Curve



SU8028/8043-F Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I
SU8028-F	8.00±0.30	8.00±0.30	2.80±0.30	2.50 typ.	2.80 typ.	6.00 typ.	3.20 ref.	5.80 ref.	2.00 ref.
SU8043-F	8.00±0.30	8.00±0.30	4.30±0.30	2.50 typ.	3.00±0.50	6.00 typ.	3.20 ref.	5.80 ref.	1.40 ref.

DESCRIPTION

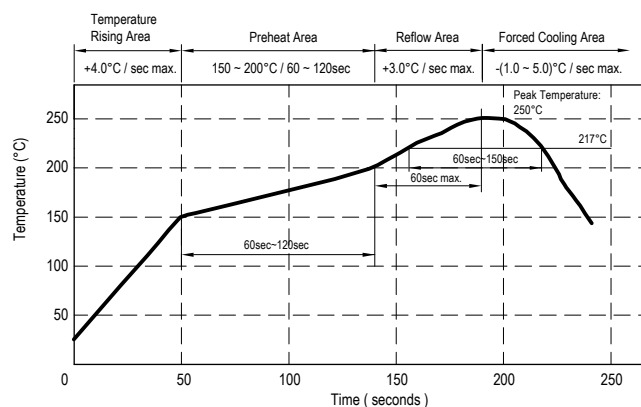
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F, H class
- Product weight: 0.61 (8028) / 0.90 (8043)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Glazing base termination offer excellent terminal strength.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



SU8028/8043-F Series

ELECTRICAL CHARACTERISTICS

■ SU8028-F Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq.		SRF (MHz) typ.	RDC ($m\Omega$)		Irms (A)	Isat (A)
			L (kHz)	Q (MHz)		typ.	max.		
SU80282R5YF□-□□□	2.5 $\pm$ 30%	15	100	7.96	65	13.6	18	4.50	4.20
SU80283R3YF□-□□□	3.3 $\pm$ 30%	12	100	7.96	60	17.5	23	3.60	3.50
SU80284R7YF□-□□□	4.7 $\pm$ 30%	15	100	7.96	50	20.0	26	3.70	3.20
SU80286R8YF□-□□□	6.8 $\pm$ 30%	13	100	7.96	40	34.0	45	2.80	2.50
SU8028100YF□-□□□	10.0 $\pm$ 30%	22	100	2.52	35	45.0	57	2.60	2.20
SU8028150YF□-□□□	15.0 $\pm$ 30%	20	100	2.52	25	66.0	85	2.00	1.70
SU8028220YF□-□□□	22.0 $\pm$ 30%	22	100	2.52	20	106.0	130	1.60	1.50
SU8028330YF□-□□□	33.0 $\pm$ 30%	20	100	2.52	15	147.0	185	1.30	1.10
SU8028470YF□-□□□	47.0 $\pm$ 30%	14	100	2.52	12	177.0	230	1.20	1.00
SU8028680YF□-□□□	68.0 $\pm$ 30%	23	100	2.52	9	317.0	390	0.85	0.80
SU8028101YF□-□□□	100.0 $\pm$ 30%	20	100	0.796	8	390.0	500	0.75	0.70

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

- Inductance Test Freq. : 100kHz / 1V
- Irms base on Temp. rise 40°C typ.
- Isat base on $\Delta L/L0A=35\%$ typ.

■ SU8043-F Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq.		SRF (MHz) typ.	RDC ($m\Omega$)		Irms (A)	Isat (A)
			L (kHz)	Q (MHz)		typ.	max.		
SU80431R0YF□-□□□	1.0 $\pm$ 30%	15	100	7.96	70	8.1	10	6.60	7.50
SU80432R2YF□-□□□	2.2 $\pm$ 30%	15	100	7.96	65	11.2	15	5.40	5.20
SU80433R3YF□-□□□	3.3 $\pm$ 30%	12	100	7.96	54	12.5	17	5.10	4.50
SU80433R9YF□-□□□	3.9 $\pm$ 30%	15	100	7.96	42	14.6	19	4.80	4.00
SU80434R7YF□-□□□	4.7 $\pm$ 30%	13	100	7.96	36	17.0	22	4.60	3.60
SU80436R8YF□-□□□	6.8 $\pm$ 30%	12	100	7.96	30	22.4	30	3.80	3.10
SU8043100YF□-□□□	10.0 $\pm$ 30%	27	100	2.52	20	30.0	40	3.50	2.70
SU8043150YF□-□□□	15.0 $\pm$ 30%	26	100	2.52	15	46.0	60	2.70	2.00
SU8043220YF□-□□□	22.0 $\pm$ 30%	24	100	2.52	12	72.5	95	2.20	1.70
SU8043330YF□-□□□	33.0 $\pm$ 30%	21	100	2.52	11	100.0	130	1.70	1.40
SU8043470YF□-□□□	47.0 $\pm$ 30%	21	100	2.52	9	120.0	150	1.50	1.20
SU8043680YF□-□□□	68.0 $\pm$ 30%	20	100	2.52	7	192.0	250	1.20	1.00
SU8043101YF□-□□□	100.0 $\pm$ 30%	50	100	0.796	6	287.0	370	1.00	0.80

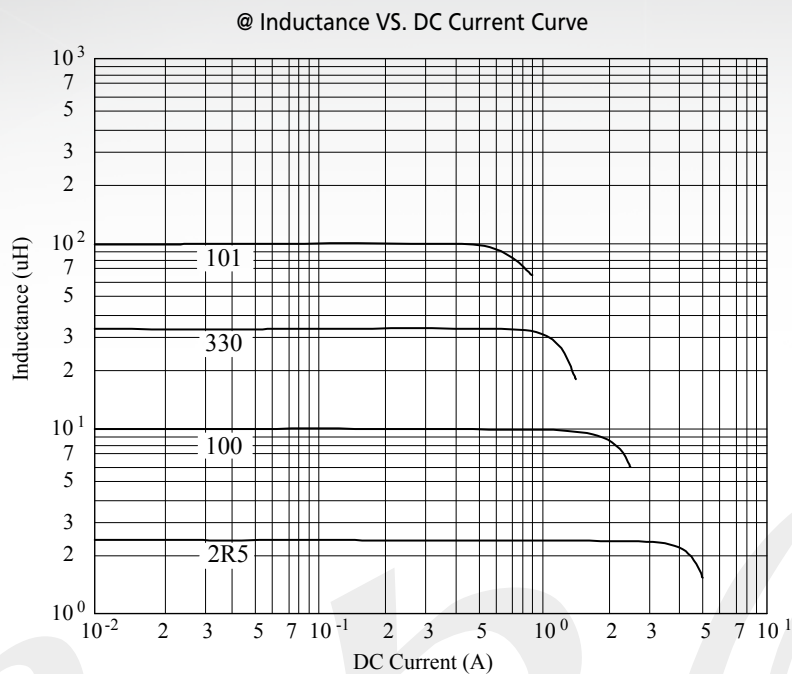
- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

- Inductance Test Freq. : 100kHz / 1V
- Irms base on Temp. rise 40°C typ.
- Isat base on $\Delta L/L0A=35\%$ typ.

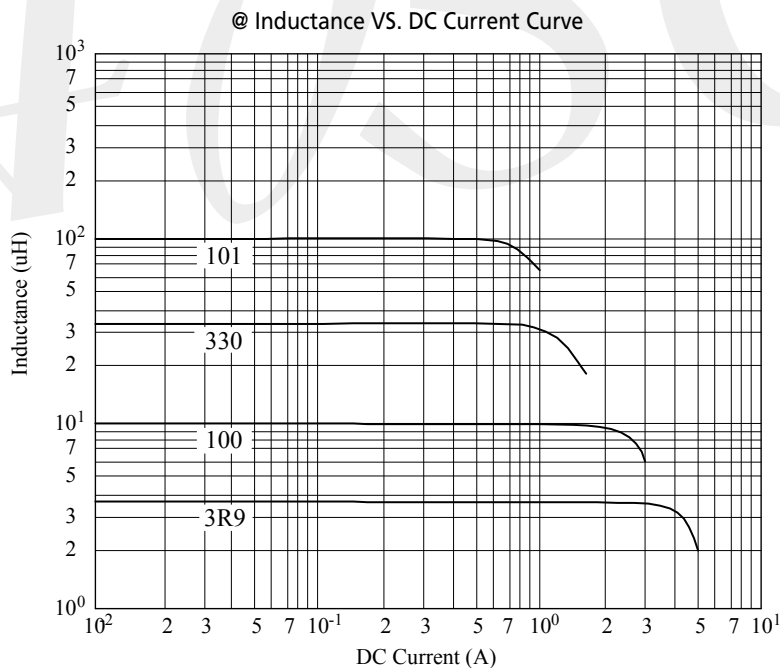
SU8028/8043-F Series

CURVE

■ SU8028-F Series

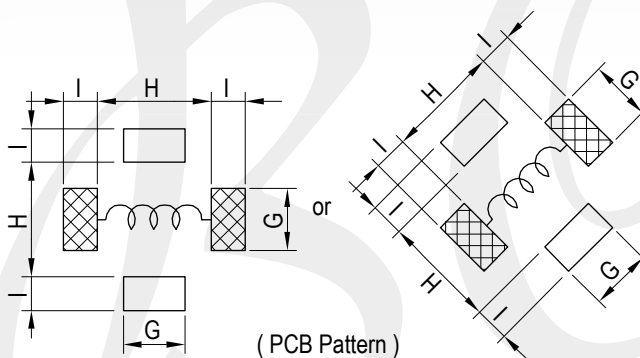
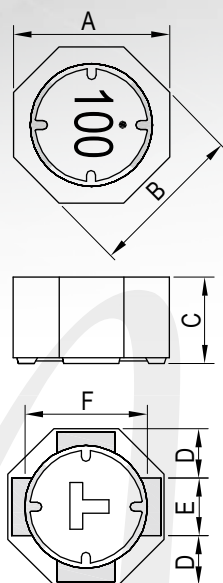


■ SU8043-F Series



SU8030/8040/8058/1030/1040/1065-F Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I
SU8030-F	8.00±0.30	8.00±0.30	2.80±0.30	2.40 typ.	3.20 typ.	6.40 typ.	3.40 ref.	6.20 ref.	1.40 ref.
SU8040-F	8.00±0.30	8.00±0.30	3.80±0.30	2.40 typ.	3.20 typ.	6.40 typ.	3.40 ref.	6.20 ref.	1.40 ref.
SU8058-F	8.00±0.30	8.00±0.30	5.80±0.30	2.40 typ.	3.20 typ.	6.40 typ.	3.40 ref.	6.20 ref.	1.40 ref.
SU1030-F	10.00±0.30	10.00±0.30	2.80±0.30	3.00 typ.	4.00 typ.	8.20 typ.	4.20 ref.	8.20 ref.	1.40 ref.
SU1040-F	10.00±0.30	10.00±0.30	3.80±0.30	3.00 typ.	4.00 typ.	8.20 typ.	4.20 ref.	8.20 ref.	1.40 ref.
SU1065-F	10.00±0.30	10.00±0.30	6.60±0.30	3.00 typ.	4.00 typ.	8.20 typ.	4.20 ref.	8.20 ref.	1.40 ref.

DESCRIPTION

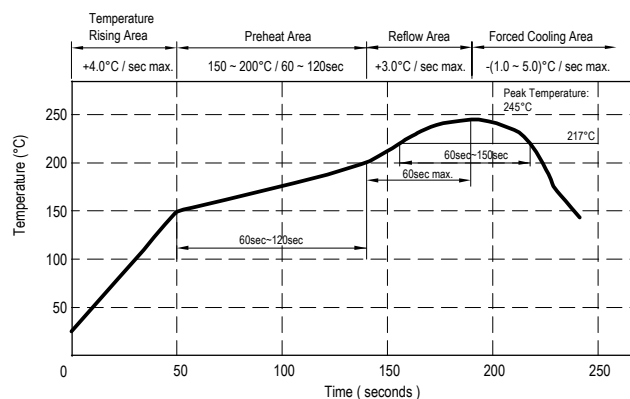
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F, H class
- Product weight: 0.62 (8030) / 0.82 (8040) / 1.20 (8058) / 0.90 (1030) / 1.32 (1040) / 2.35 (1065)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs.(8058,1065,1040)
250°C.10 secs.(8030,8040,1030)
- Recommended IR Reflow:
Peak Temp: 245°C max. (8058,1065,1040)
250°C max. (8030,8040,1030)
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Glazing base termination offer excellent terminal strength.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.



SU8030/8040/8058/1030/1040/1065-F Series

ELECTRICAL CHARACTERISTICS

■ SU8030-F Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq.		SRF (MHz) typ.	RDC (m Ω)		I _{rms} (A) typ.	I _{sat} (A) typ.
			L (kHz)	Q (MHz)		typ.	max.		
SU80303R3YF□-□□□	3.3 $\pm$ 30%	12	100	7.96	55	15.6	22.0	5.00	4.60
SU80304R7YF□-□□□	4.7 $\pm$ 30%	10	100	7.96	42	22.0	30.0	4.60	3.80
SU80306R8YF□-□□□	6.8 $\pm$ 30%	10	100	7.96	30	34.5	46.0	3.60	3.20
SU8030100YF□-□□□	10.0 $\pm$ 30%	18	100	2.52	25	47.3	60.0	3.00	2.60
SU8030150YF□-□□□	15.0 $\pm$ 30%	18	100	2.52	20	75.0	100.0	2.20	2.00
SU8030220YF□-□□□	22.0 $\pm$ 30%	18	100	2.52	16	105.0	130.0	2.00	1.75
SU8030330YF□-□□□	33.0 $\pm$ 30%	16	100	2.52	14	144.0	180.0	1.60	1.45
SU8030470YF□-□□□	47.0 $\pm$ 30%	16	100	2.52	12	205.0	260.0	1.45	1.25
SU8030680YF□-□□□	68.0 $\pm$ 30%	16	100	2.52	9	250.0	315.0	1.25	0.96
SU8030101YF□-□□□	100.0 $\pm$ 30%	24	100	0.796	7	415.0	520.0	0.85	0.75

■ SU8040-F Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq.		SRF (MHz) typ.	RDC (m Ω)		I _{rms} (A) typ.	I _{sat} (A) typ.
			L (kHz)	Q (MHz)		typ.	max.		
SU80403R3YF□-□□□	3.3 $\pm$ 30%	12	100	7.96	40	13.8	18.0	6.00	5.00
SU80404R2YF□-□□□	4.2 $\pm$ 30%	12	100	7.96	32	16.5	22.0	5.30	4.60
SU80406R2YF□-□□□	6.2 $\pm$ 30%	10	100	7.96	28	25.0	32.0	4.20	4.00
SU8040100YF□-□□□	10.0 $\pm$ 30%	22	100	2.52	20	33.0	42.0	3.70	2.90
SU8040150YF□-□□□	15.0 $\pm$ 30%	20	100	2.52	18	55.0	70.0	2.80	2.50
SU8040220YF□-□□□	22.0 $\pm$ 30%	22	100	2.52	15	88.0	110.0	2.20	2.05
SU8040330YF□-□□□	33.0 $\pm$ 30%	22	100	2.52	12	115.0	150.0	1.90	1.75
SU8040470YF□-□□□	47.0 $\pm$ 30%	20	100	2.52	10	150.0	190.0	1.55	1.45
SU8040680YF□-□□□	68.0 $\pm$ 30%	18	100	2.52	8	205.0	260.0	1.35	1.10
SU8040101YF□-□□□	100.0 $\pm$ 30%	25	100	0.796	6	325.0	410.0	1.05	0.92
SU8040151YF□-□□□	150.0 $\pm$ 30%	18	100	0.796	5	445.0	560.0	0.90	0.77

■ SU8058-F Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq.		SRF (MHz) typ.	RDC (m Ω)		I _{rms} (A) typ.	I _{sat} (A) typ.
			L (kHz)	Q (MHz)		typ.	max.		
SU80583R9YF□-□□□	3.9 $\pm$ 30%	8	100	7.96	45	12.0	16.0	6.50	4.50
SU80585R2YF□-□□□	5.2 $\pm$ 30%	8	100	7.96	35	14.0	17.5	5.80	3.90
SU80586R8YF□-□□□	6.8 $\pm$ 30%	8	100	7.96	30	16.0	20.0	5.50	4.00
SU8058100YF□-□□□	10.0 $\pm$ 30%	20	100	2.52	18	18.6	25.0	4.60	3.00
SU8058220YF□-□□□	22.0 $\pm$ 30%	20	100	2.52	14	42.0	52.0	3.40	1.80
SU8058330YF□-□□□	33.0 $\pm$ 30%	16	100	2.52	10	58.0	72.0	2.70	1.60
SU8058470YF□-□□□	47.0 $\pm$ 30%	12	100	2.52	7	80.0	100.0	2.30	1.50
SU8058680YF□-□□□	68.0 $\pm$ 30%	16	100	2.52	6	100.0	130.0	2.00	1.20
SU8058101YF□-□□□	100.0 $\pm$ 30%	22	100	0.796	5	124.0	160.0	1.70	0.90

1. □ : Packaging information: □ Code
2. "-□□□": Reference code
3. Electrical specifications at 25°C

4. Inductance test Freq. : 100kHz / 0.1V
5. I_{rms} base on Temp. rise 40°C typ.
6. I_{sat} base on Δ L/L0A=35% typ.

SU8030/8040/8058/1030/1040/1065-F Series

■ SU1030-F Series

DWG. No.	Inductance (μ H)	Q ref.	SRF (MHz) typ.	RDC ($m\Omega$)		I _{rms} (A) typ.	I _{sat} (A) typ.
				typ.	max.		
SU10303R5YF□-□□□	3.5 $\pm$ 30%	16	45.0	20.5	27.0	5.00	5.20
SU10304R7YF□-□□□	4.7 $\pm$ 30%	14	36.0	25.0	32.5	4.20	4.40
SU10306R2YF□-□□□	6.2 $\pm$ 30%	12	30.0	32.0	42.0	3.80	3.90
SU1030100YF□-□□□	10.0 $\pm$ 30%	16	26.0	44.0	58.0	3.00	3.10
SU1030150YF□-□□□	15.0 $\pm$ 30%	16	22.0	73.0	95.0	2.60	2.55
SU1030220YF□-□□□	22.0 $\pm$ 30%	16	18.0	110.0	145.0	2.00	2.10
SU1030330YF□-□□□	33.0 $\pm$ 30%	12	14.0	150.0	195.0	1.70	1.74
SU1030470YF□-□□□	47.0 $\pm$ 30%	14	12.0	210.0	270.0	1.40	1.35
SU1030680YF□-□□□	68.0 $\pm$ 30%	14	10.0	285.0	370.0	1.20	1.22
SU1030101YF□-□□□	100.0 $\pm$ 30%	14	8.5	395.0	520.0	1.10	1.02
SU1030151YF□-□□□	150.0 $\pm$ 30%	12	5.5	640.0	840.0	0.85	0.84

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C
- Inductance Test Freq.: 100kHz / 0.1V

- Q Test Freq.: 3R5~6R2--7.96MHz, 100~680--2.52MHz, 101~151--0.796MHz
- I_{rms} base on Temp. rise 40°C typ.
- I_{sat} base on $\Delta L/L_0A=35\%$ typ.

■ SU1040-F Series

DWG. No.	Inductance (μ H)	Q ref.	SRF (MHz) typ.	RDC ($m\Omega$)		I _{rms} (A) typ.	I _{sat} (A) typ.
				typ.	max.		
SU10403R8YF□-□□□	3.8 $\pm$ 30%	14	40.0	13.5	18.0	6.60	5.80
SU10405R0YF□-□□□	5.0 $\pm$ 30%	12	28.0	17.5	23.0	5.20	4.70
SU10406R2YF□-□□□	6.2 $\pm$ 30%	12	24.0	21.5	28.0	4.70	4.30
SU1040100YF□-□□□	10.0 $\pm$ 30%	16	22.0	32.0	42.0	4.40	3.80
SU1040150YF□-□□□	15.0 $\pm$ 30%	18	16.0	60.0	78.0	2.90	2.80
SU1040220YF□-□□□	22.0 $\pm$ 30%	16	12.0	75.0	98.0	2.55	2.48
SU1040330YF□-□□□	33.0 $\pm$ 30%	16	10.0	110.0	140.0	2.05	2.00
SU1040470YF□-□□□	47.0 $\pm$ 30%	16	8.0	170.0	220.0	1.62	1.56
SU1040680YF□-□□□	68.0 $\pm$ 30%	16	7.0	245.0	320.0	1.45	1.40
SU1040101YF□-□□□	100.0 $\pm$ 30%	14	6.0	320.0	415.0	1.18	1.14
SU1040221YF□-□□□	220.0 $\pm$ 30%	14	4.0	760.0	950.0	0.78	0.72
SU1040331YF□-□□□	330.0 $\pm$ 30%	14	2.5	1080.0	1350.0	0.62	0.60

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C
- Inductance Test Freq.: 100kHz / 0.1V

- Q Test Freq.: 3R8~6R2--7.96MHz, 100~680--2.52MHz, 101~331--0.796MHz
- I_{rms} base on Temp. rise 40°C typ.
- I_{sat} base on $\Delta L/L_0A=35\%$ typ.

SU8030/8040/8058/1030/1040/1065-F Series

■ SU1065-F Series

DWG. No.	Inductance (μ H)	Q ref.	SRF (MHz) typ.	RDC ($m\Omega$)		Irms (A) typ.	Isat (A) typ.
				typ.	max.		
SU10652R8YF □-□□□	2.8 $\pm$ 30%	15	60	15	19	6.50	7.50
SU10654R2YF □-□□□	4.2 $\pm$ 30%	14	45	18	23	5.60	7.00
SU10656R5YF □-□□□	6.5 $\pm$ 30%	13	28	28	35	5.00	5.30
SU1065100YF □-□□□	10.0 $\pm$ 30%	14	20	33	41	4.90	4.00
SU1065220YF □-□□□	22.0 $\pm$ 30%	16	12	58	73	3.80	2.80
SU1065330YF □-□□□	33.0 $\pm$ 30%	10	7	93	120	2.70	2.40
SU1065470YF □-□□□	47.0 $\pm$ 30%	10	6	165	210	2.10	2.10
SU1065680YF □-□□□	68.0 $\pm$ 30%	8	5	195	250	1.85	1.75
SU1065101YF □-□□□	100.0 $\pm$ 30%	13	4	234	290	1.80	1.40

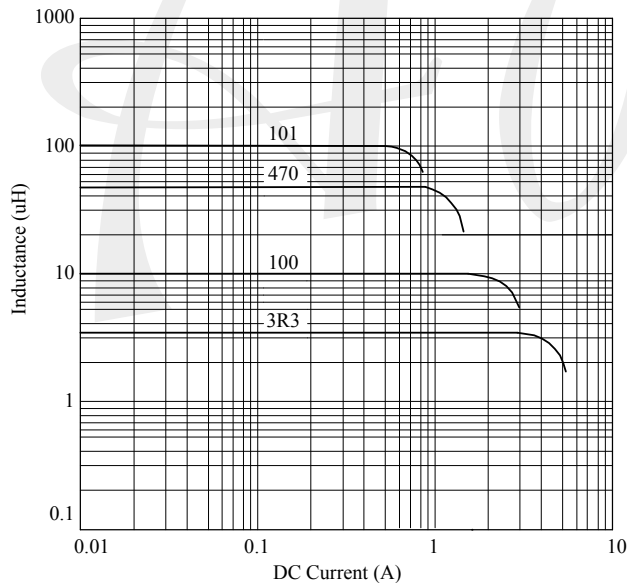
1. □: Packaging information: □ Code
2. "-□□□": Reference code
3. Electrical specifications at 25°C
4. Inductance Test Freq.: 100kHz / 0.1V

5. Q Test Freq.: 2R8~6R5--7.96MHz, 100~680--2.52MHz, 101--0.796MHz
6. Irms base on Temp. rise 40°C typ.
7. Isat base on $\Delta L/L0A=35\%$ typ.

CURVE

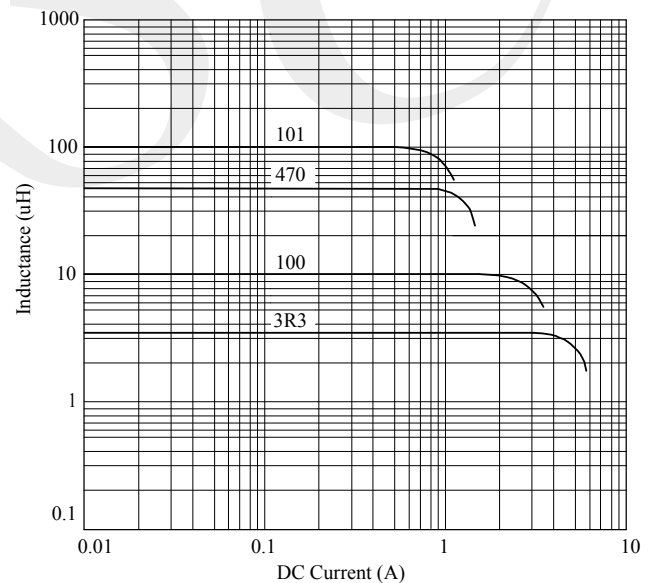
■ SU8030-F Series

@ Inductance VS. DC Current Curve



■ SU8040-F Series

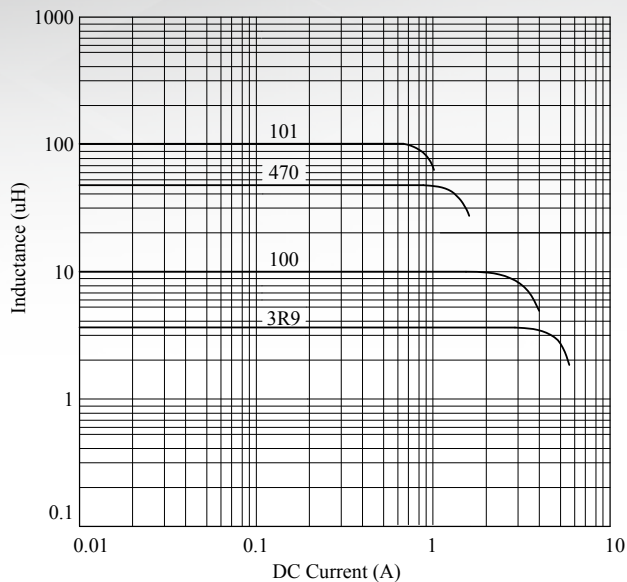
@ Inductance VS. DC Current Curve



SU8030/8040/8058/1030/1040/1065-F Series

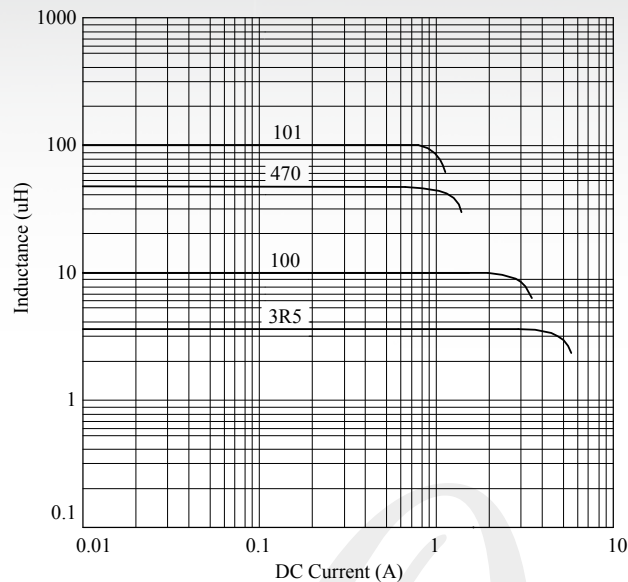
■ SU8058-F Series

@ Inductance VS. DC Current Curve



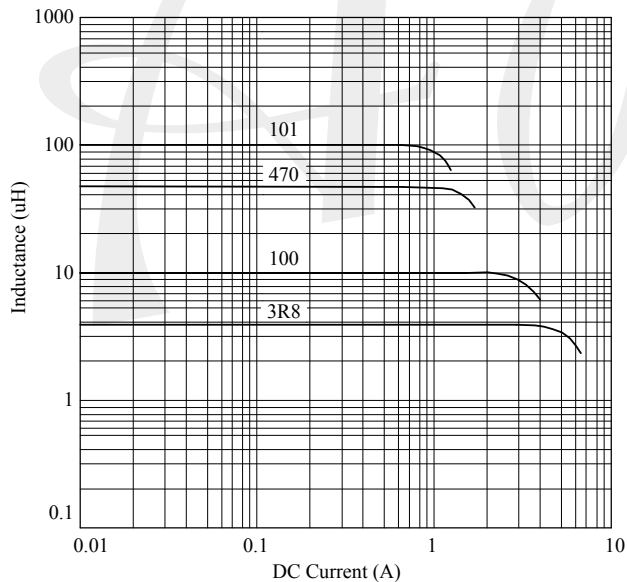
■ SU1030-F Series

@ Inductance VS. DC Current Curve



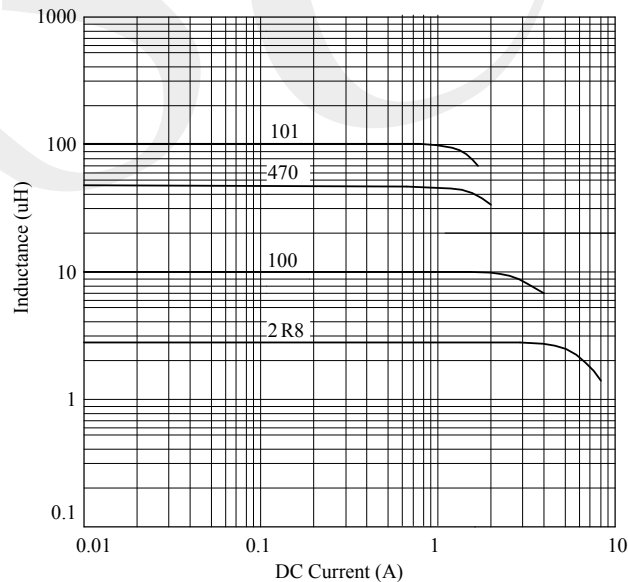
■ SU1040-F Series

@ Inductance VS. DC Current Curve



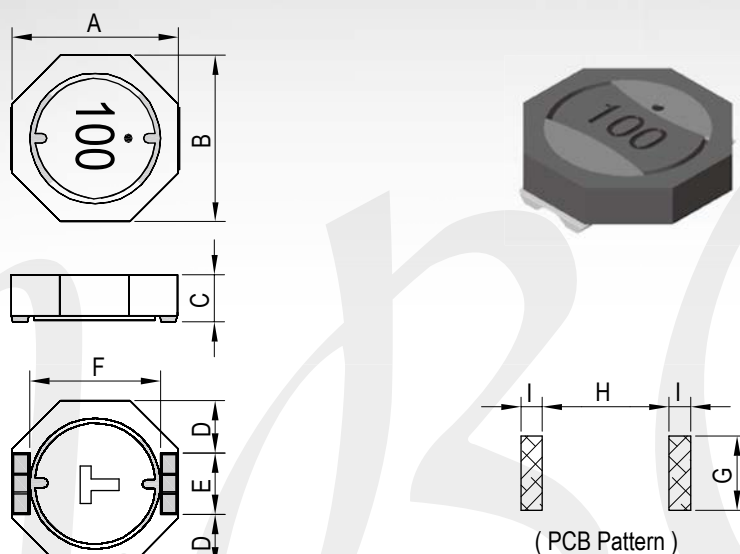
■ SU1065-F Series

@ Inductance VS. DC Current Curve



SU1028/1038/1048-F Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I
SU1028-F	10.00±0.30	10.00±0.30	2.80±0.30	3.40 typ.	3.20 typ.	7.40 typ.	4.00 ref.	7.20 ref.	1.80 ref.
SU1038-F	10.00±0.30	10.00±0.30	3.80±0.30	3.40 typ.	3.20 typ.	7.40 typ.	4.00 ref.	7.20 ref.	1.80 ref.
SU1048-F	10.00±0.30	10.00±0.30	4.80±0.30	3.40 typ.	3.20 typ.	7.40 typ.	4.00 ref.	7.20 ref.	1.80 ref.

DESCRIPTION

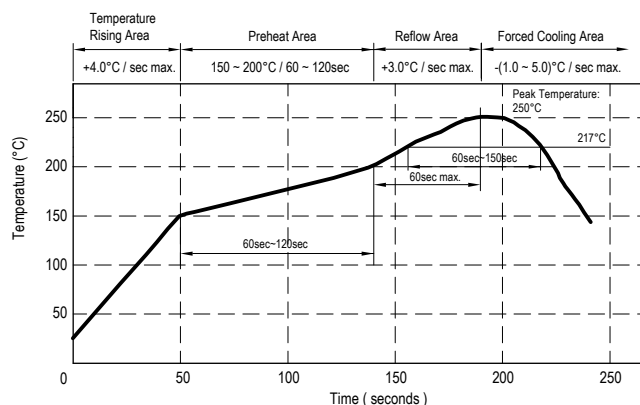
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F & H class
F class (1048)
- Product weight: 0.90 (1028) / 1.26 (1038) / 1.63 (1048)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs. (1038, 1048)
250°C.10 secs. (1028)
- Recommended IR Reflow:
Peak Temp: 245°C max. (1038, 1048)
250°C max. (1028)
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Glazing base termination offer excellent terminal strength.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.



SU1028/1038/1048-F Series

ELECTRICAL CHARACTERISTICS

■ SU1028-F Series

DWG. No.	Inductance (μ H)	Q ref.	SRF (MHz) typ.	RDC ($m\Omega$)		Irms (A) max.	Isat (A) typ.
				typ.	max.		
SU10281R0YF□-□□□	1.0 $\pm$ 30%	14	100	4.9	6.5	7.00	8.00
SU10281R5YF□-□□□	1.5 $\pm$ 30%	12	80	7.3	10.0	6.50	6.50
SU10282R2YF□-□□□	2.2 $\pm$ 30%	12	65	11.0	15.0	5.30	4.80
SU10283R3YF□-□□□	3.3 $\pm$ 30%	14	55	15.0	20.0	4.60	4.30
SU10284R7YF□-□□□	4.7 $\pm$ 30%	12	40	16.5	23.0	4.50	3.80
SU10286R8YF□-□□□	6.8 $\pm$ 30%	12	30	25.0	33.0	3.50	3.00
SU10288R2YF□-□□□	8.2 $\pm$ 30%	12	28	28.5	37.0	3.30	2.70
SU1028100YF□-□□□	10.0 $\pm$ 30%	20	25	40.0	53.0	2.80	2.40
SU1028150YF□-□□□	15.0 $\pm$ 30%	26	22	69.0	90.0	2.00	2.00
SU1028220YF□-□□□	22.0 $\pm$ 30%	26	16	104.0	135.0	1.60	1.40
SU1028330YF□-□□□	33.0 $\pm$ 30%	24	12	139.0	180.0	1.25	1.20
SU1028470YF□-□□□	47.0 $\pm$ 30%	20	11	167.0	230.0	1.30	1.10
SU1028560YF□-□□□	56.0 $\pm$ 30%	22	10	208.0	270.0	1.10	1.00
SU1028680YF□-□□□	68.0 $\pm$ 30%	20	9	232.0	300.0	1.00	0.90
SU1028820YF□-□□□	82.0 $\pm$ 30%	20	8	323.0	420.0	0.90	0.85
SU1028101YF□-□□□	100.0 $\pm$ 30%	20	7	365.0	470.0	0.85	0.80
SU1028121YF□-□□□	120.0 $\pm$ 30%	18	6	428.0	560.0	0.70	0.70
SU1028151YF□-□□□	150.0 $\pm$ 30%	18	5	518.0	680.0	0.65	0.65

1. □ : Packaging information: □ Code
2. "- □□□" : Reference code
3. Electrical specifications at 25°C
4. Inductance Test Freq.: 100kHz / 1V

5. Q Test Freq.: 1R0~8R2--7.96MHz, 100~820--2.52MHz, 101~151--0.796MHz
6. Irms base on Temp. rise 40°C max.
7. Isat base on $\Delta L/L0A=35\%$ typ.

■ SU1038-F Series

DWG. No.	Inductance (μ H)	Q ref.	SRF (MHz) typ.	RDC ($m\Omega$)		Irms (A) max.	Isat (A) typ.
				typ.	max.		
SU10381R5YF□-□□□	1.5 $\pm$ 30%	14	65	5.2	7.5	7.20	7.00
SU10382R2YF□-□□□	2.2 $\pm$ 30%	12	55	7.7	10.5	6.80	6.50
SU10383R5YF□-□□□	3.5 $\pm$ 30%	14	35	11.5	15.0	5.50	5.50
SU10385R0YF□-□□□	5.0 $\pm$ 30%	12	30	14.5	22.0	4.60	4.80
SU10386R2YF□-□□□	6.2 $\pm$ 30%	12	25	16.5	24.0	4.00	4.20
SU1038100YF□-□□□	10.0 $\pm$ 30%	24	20	25.0	35.0	3.80	3.60
SU1038150YF□-□□□	15.0 $\pm$ 30%	24	16	37.0	50.0	2.80	2.70
SU1038220YF□-□□□	22.0 $\pm$ 30%	20	12	55.8	75.0	2.20	2.30
SU1038330YF□-□□□	33.0 $\pm$ 30%	22	10	86.0	112.0	1.80	1.80
SU1038470YF□-□□□	47.0 $\pm$ 30%	22	8	121.0	160.0	1.65	1.60
SU1038680YF□-□□□	68.0 $\pm$ 30%	24	7	166.0	216.0	1.30	1.30
SU1038101YF□-□□□	100.0 $\pm$ 30%	24	6	220.0	300.0	1.10	1.10
SU1038151YF□-□□□	150.0 $\pm$ 30%	20	5	358.0	476.0	0.90	0.80
SU1038221YF□-□□□	220.0 $\pm$ 30%	22	4	565.0	740.0	0.65	0.65
SU1038331YF□-□□□	330.0 $\pm$ 30%	20	3	773.0	1000.0	0.55	0.52

1. □ : Packaging information: □ Code
2. "- □□□" : Reference code
3. Electrical specifications at 25°C
4. Inductance Test Freq.: 100kHz / 1V

5. Q Test Freq.: 1R5~6R2--7.96MHz, 100~680--2.52MHz, 101~331--0.796MHz
6. Irms base on Temp. rise 40°C max.
7. Isat base on $\Delta L/L0A=35\%$ typ.

SU1028/1038/1048-F Series

■ SU1048-F Series

DWG. No.	Inductance (μ H)	Q ref.	SRF (MHz) typ.	RDC ($m\Omega$)		I _{rms} (A) max.	I _{sat} (A) typ.
				typ.	max.		
SU1048R80YF□-□□□	0.8 $\pm$ 30%	8	100.0	3.6	4.8	7.80	8.50
SU10481R5YF□-□□□	1.5 $\pm$ 30%	14	70.0	4.3	5.8	7.00	7.20
SU10482R2YF□-□□□	2.2 $\pm$ 30%	14	55.0	5.3	7.2	6.50	6.30
SU10483R0YF□-□□□	3.0 $\pm$ 30%	14	40.0	7.2	10.0	6.20	6.00
SU10484R7YF□-□□□	4.7 $\pm$ 30%	12	30.0	9.5	12.5	5.50	4.75
SU10486R8YF□-□□□	6.8 $\pm$ 30%	10	20.0	13.6	18.0	4.80	4.10
SU10488R2YF□-□□□	8.2 $\pm$ 30%	8	18.0	15.0	20.0	4.60	3.80
SU1048100YF□-□□□	10.0 $\pm$ 30%	26	16.0	18.5	25.0	4.50	3.70
SU1048150YF□-□□□	15.0 $\pm$ 30%	30	14.0	29.0	40.0	3.20	2.70
SU1048220YF□-□□□	22.0 $\pm$ 30%	22	12.0	42.0	55.0	2.60	2.00
SU1048330YF□-□□□	33.0 $\pm$ 30%	24	10.0	63.0	84.0	2.10	1.70
SU1048470YF□-□□□	47.0 $\pm$ 30%	26	8.0	94.0	120.0	1.70	1.50
SU1048560YF□-□□□	56.0 $\pm$ 30%	26	7.0	110.0	145.0	1.60	1.40
SU1048680YF□-□□□	68.0 $\pm$ 30%	24	6.0	127.0	170.0	1.40	1.25
SU1048820YF□-□□□	82.0 $\pm$ 30%	24	5.5	149.0	200.0	1.30	1.10
SU1048101YF□-□□□	100.0 $\pm$ 30%	26	5.0	160.0	220.0	1.20	1.00
SU1048151YF□-□□□	150.0 $\pm$ 30%	24	4.5	235.0	305.0	1.00	0.80
SU1048221YF□-□□□	220.0 $\pm$ 30%	20	4.0	350.0	455.0	0.80	0.70
SU1048331YF□-□□□	330.0 $\pm$ 30%	18	3.0	490.0	640.0	0.65	0.52

1. □ : Packaging information: □ Code
2. "-□□□": Reference code
3. Electrical specifications at 25°C
4. Inductance Test Freq.: 100kHz / 1V

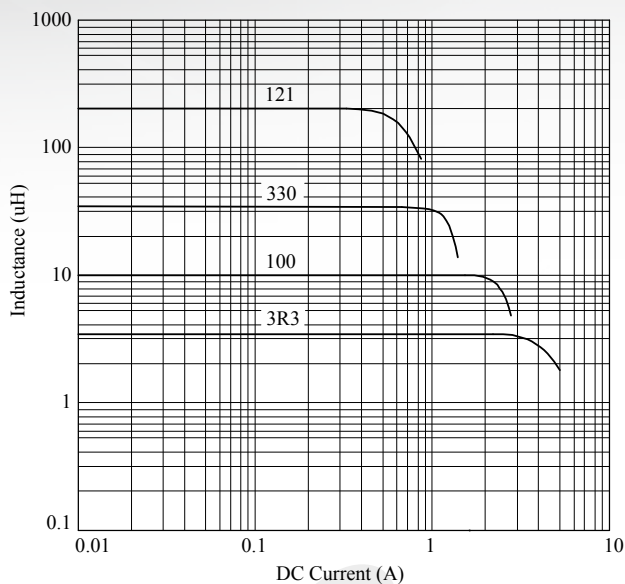
5. Q Test Freq.: R80--25.2MHz, 1R5~8R2--7.96MHz, 100~820--2.52MHz, 101~331--0.796MHz
6. I_{rms} base on Temp. rise 30°C max.
7. I_{sat} base on $\Delta L/L_0A=35\%$ typ.

SU1028/1038/1048-F Series

CURVE

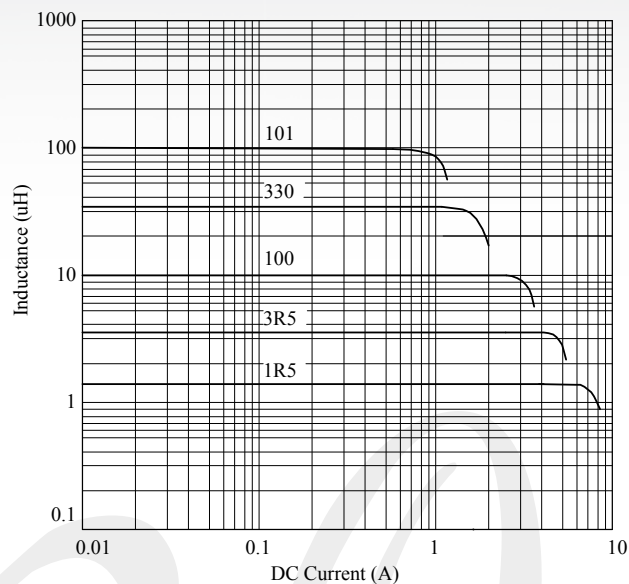
■ SU1028-F Series

@ Inductance VS. DC Current Curve



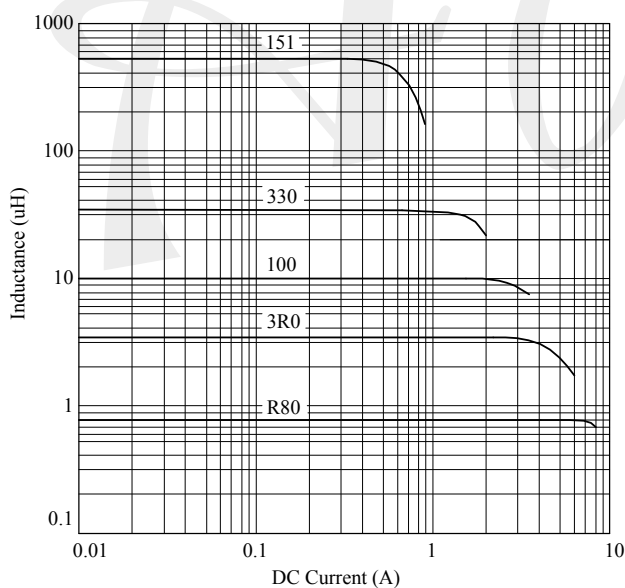
■ SU1038-F Series

@ Inductance VS. DC Current Curve



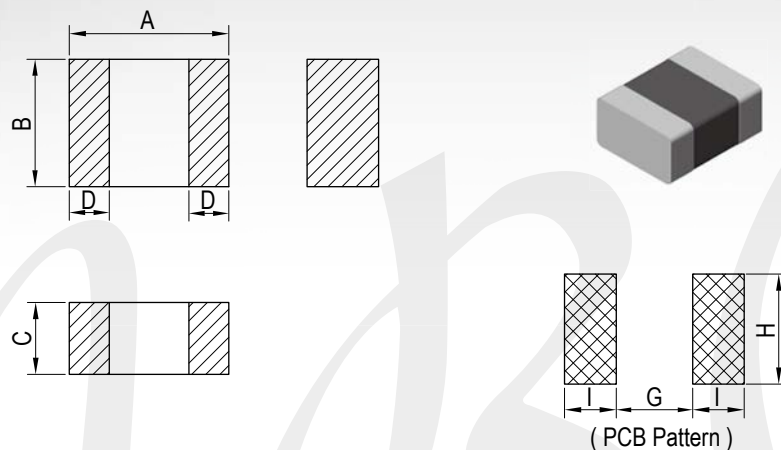
■ SU1048-F Series

@ Inductance VS. DC Current Curve



DP2016-S Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	G	H	I
DP2016-S	2.00±0.20	1.60±0.20	1.00 max.	0.50±0.30	0.90	1.60	0.55

DESCRIPTION

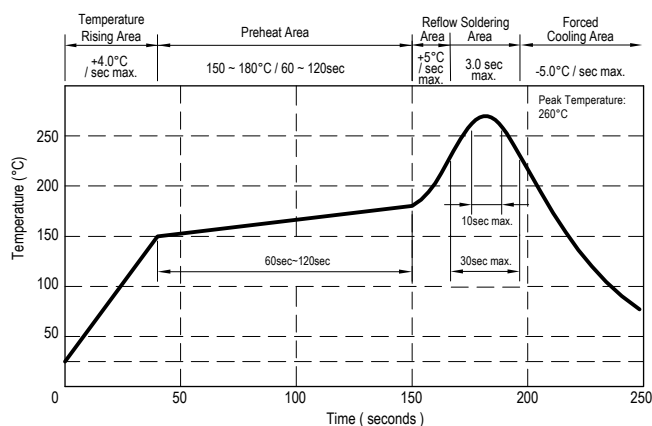
- Alloy powder
- Magnetically shielded
- Enamelled copper wire: H class
- Product weight: 18mg (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Small size, low profile and high current handling
- Magnetic shielded part.
- Automated production.
- High reliability.
- Reflow solderable.
- Hard disk (HD)
- Tablet Computer
- Smart phone
- Camera
- GPS

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 260°C.10 secs.
- Recommended IR Reflow:
Peak Temp: 260°C max.
Soldering time above 230°C: 30sec max.
Max time for 260°C: 10sec max.



DP2016-S Series

DP

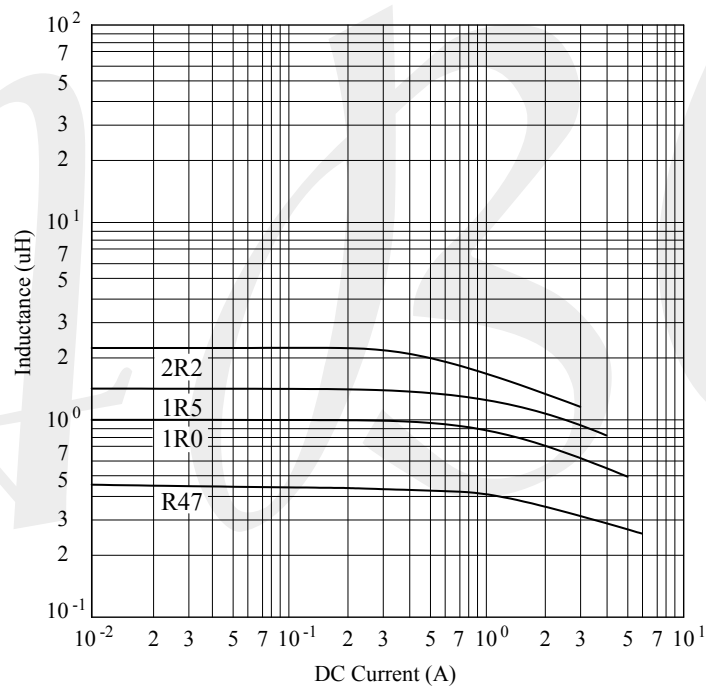
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μH)	RDC (mΩ) max.	Isat (A)		Irms (A)	
			max.	typ.	max.	typ.
DP2016R47MS□-□□□	0.47±20%	40	4.00	4.50	3.10	3.60
DP20161R0MS□-□□□	1.00±20%	70	3.10	3.40	2.20	2.60
DP20161R5MS□-□□□	1.50±20%	110	2.50	2.80	1.80	2.10
DP20162R2MS□-□□□	2.20±20%	168	2.00	2.20	1.40	1.60
DP20163R3MS□-□□□	3.30±20%	225	1.50	1.90	1.20	1.40
DP20164R7MS□-□□□	4.70±20%	360	1.30	1.50	0.95	1.10

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C
- Inductance Test Freq.: 1MHz / 1V
- Isat base on $\Delta L/L0A=30\%$ (Approximately transient current)
- Irms base on Temp. rise 40°C

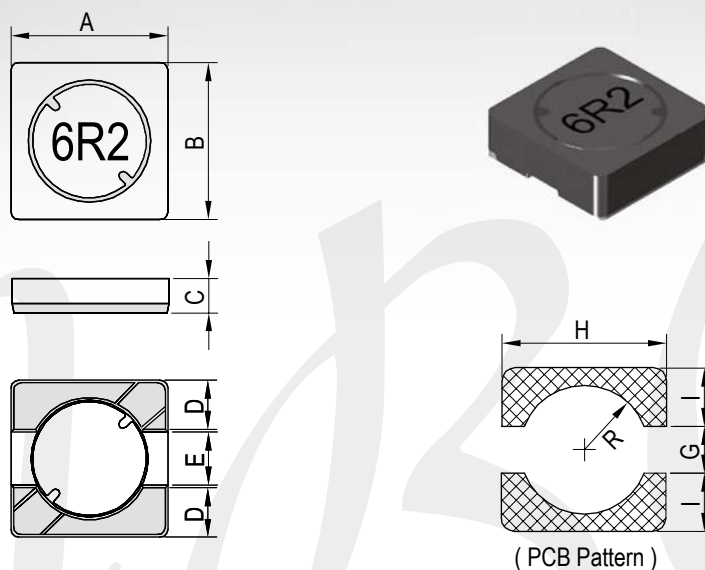
CURVE

@ Inductance VS. DC Current Curve



SH6022-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	G	H	I	R
SH6022-L	6.80±0.20	6.80±0.20	2.30±0.20	2.30 typ.	2.20 typ.	2.10 ref.	7.30 ref.	2.60 ref.	2.70 ref.

DESCRIPTION

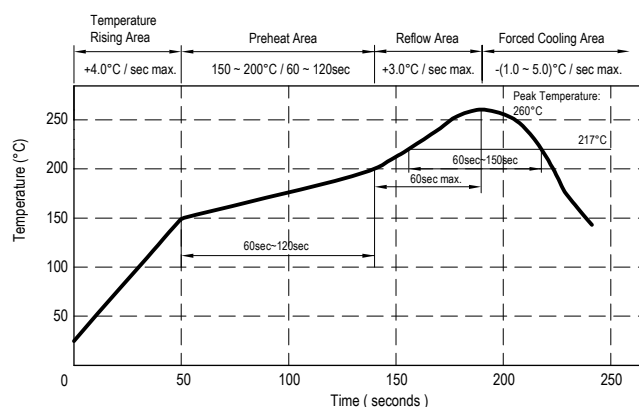
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F & H class
- Product weight: 0.41 g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Glazing base termination offer excellent terminal strength.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 260°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 260°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



SH6022-L Series

ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	SRF (MHz) typ.	RDC ($m\Omega$)		I _{rms} (mA) max.	I _{sat} (mA) typ.
			typ.	max.		
SH6022R90YL□-□□□	0.9 $\pm$ 30%	108.0	10	14	4800	4400
SH60221R5YL□-□□□	1.5 $\pm$ 30%	79.0	13	18	4300	3500
SH60222R2YL□-□□□	2.2 $\pm$ 30%	68.0	16	24	3400	2600
SH60223R3YL□-□□□	3.3 $\pm$ 30%	52.0	19	32	2800	2200
SH60225R0YL□-□□□	5.0 $\pm$ 30%	48.0	36	46	2150	2000
SH60226R2YL□-□□□	6.2 $\pm$ 30%	45.0	41	54	1900	1700
SH60227R5YL□-□□□	7.5 $\pm$ 30%	38.0	46	60	1700	1500
SH6022100YL□-□□□	10.0 $\pm$ 30%	30.0	52	70	1600	1300
SH6022120YL□-□□□	12.0 $\pm$ 30%	32.0	62	80	1430	1150
SH6022150YL□-□□□	15.0 $\pm$ 30%	30.0	73	95	1310	1050
SH6022180YL□-□□□	18.0 $\pm$ 30%	29.0	78	100	1280	1000
SH6022220YL□-□□□	22.0 $\pm$ 30%	23.0	85	120	1220	950
SH6022270YL□-□□□	27.0 $\pm$ 30%	19.0	118	150	1040	850
SH6022330YL□-□□□	33.0 $\pm$ 30%	19.0	137	200	930	780
SH6022390YL□-□□□	39.0 $\pm$ 30%	20.0	202	250	760	700
SH6022470YL□-□□□	47.0 $\pm$ 30%	18.0	223	280	730	620
SH6022560YL□-□□□	56.0 $\pm$ 30%	15.0	257	320	680	560
SH6022680YL□-□□□	68.0 $\pm$ 30%	14.0	292	360	640	500
SH6022820YL□-□□□	82.0 $\pm$ 30%	11.0	328	420	600	450
SH6022101YL□-□□□	100.0 $\pm$ 30%	9.8	358	480	550	400
SH6022121YL□-□□□	120.0 $\pm$ 30%	9.8	455	600	480	360
SH6022151YL□-□□□	150.0 $\pm$ 30%	9.3	583	720	430	320
SH6022181YL□-□□□	180.0 $\pm$ 30%	8.6	664	860	400	280
SH6022221YL□-□□□	220.0 $\pm$ 30%	6.9	820	1100	360	250
SH6022271YL□-□□□	270.0 $\pm$ 30%	6.4	948	1300	340	220
SH6022331YL□-□□□	330.0 $\pm$ 30%	6.0	1192	1500	290	200
SH6022391YL□-□□□	390.0 $\pm$ 30%	5.5	1311	1800	275	180
SH6022471YL□-□□□	470.0 $\pm$ 30%	5.0	1713	2200	240	170
SH6022561YL□-□□□	560.0 $\pm$ 30%	4.9	1909	2700	225	160
SH6022681YL□-□□□	680.0 $\pm$ 30%	4.0	2497	3500	190	150
SH6022821YL□-□□□	820.0 $\pm$ 30%	3.4	3315	4000	172	140
SH6022102YL□-□□□	1000.0 $\pm$ 30%	3.3	3827	5000	160	130

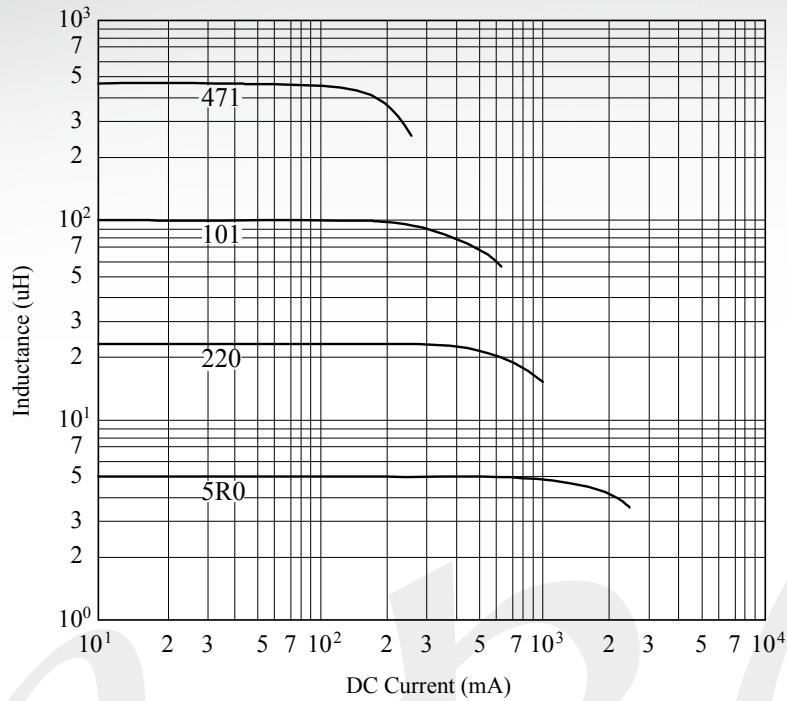
1. □ : Packaging information: □ Code
2. "- □□□": Reference code
3. Electrical specifications at 25°C
4. Inductance Test Freq.: 100kHz / 0.1V
5. I_{rms} base on Temp. rise 30°C max.
6. I_{sat} base on $\Delta L/L_0A=35\%$ typ.

SH6022-L Series

CURVE

SH

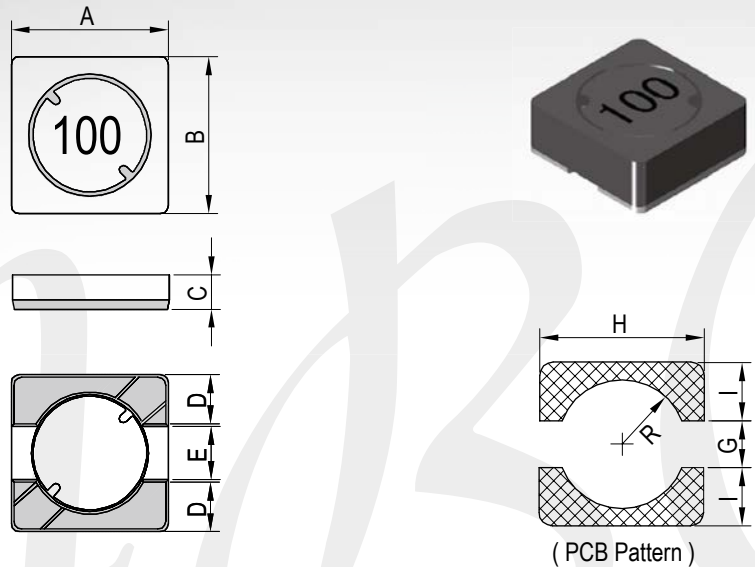
@ Inductance VS. DC Current Curve



SH6028-L Series

HS

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	G	H	I	R
SH6028-L	6.80±0.20	6.80±0.20	2.80±0.20	2.30 typ.	2.20 typ.	2.10 ref.	7.30 ref.	2.60 ref.	2.70 ref.

DESCRIPTION

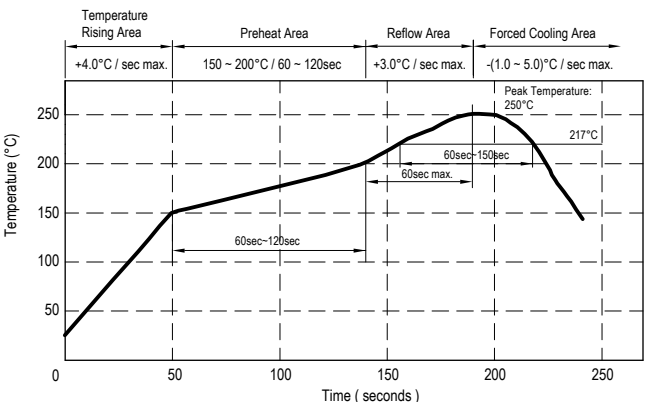
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: H class
- Product weight: 0.51 g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Glazing base termination offer excellent terminal strength.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



SH6028-L Series

ELECTRICAL CHARACTERISTICS

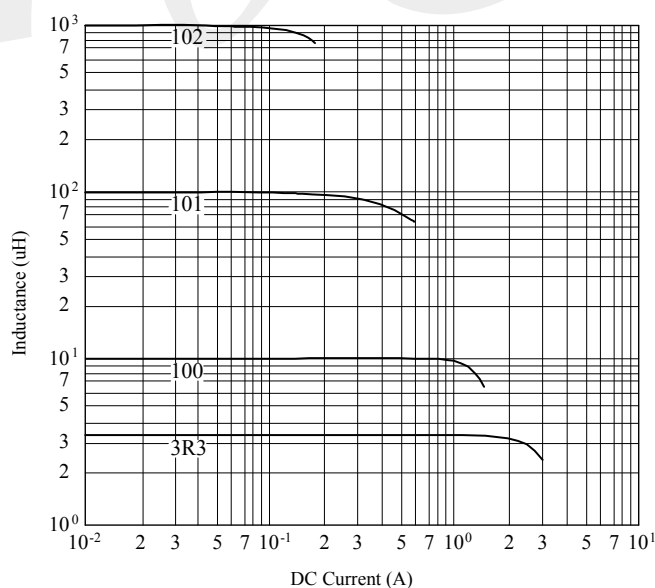
DWG. No.	Inductance (μ H)	SRF (MHz) typ.	RDC ($m\Omega$)		I _{rms} (A) max.	I _{sat} (A) typ.
			typ.	max.		
SH60282R5YL□-□□□	2.5 $\pm$ 30%	50	19	25	2.80	3.00
SH60283R3YL□-□□□	3.3 $\pm$ 30%	45	21	28	2.50	2.60
SH60283R9YL□-□□□	3.9 $\pm$ 30%	40	24	32	2.45	2.30
SH60285R0YL□-□□□	5.0 $\pm$ 30%	38	27	36	2.40	2.10
SH60286R0YL□-□□□	6.0 $\pm$ 30%	35	30	40	2.30	2.00
SH60287R3YL□-□□□	7.3 $\pm$ 30%	30	38	52	2.20	1.85
SH60288R6YL□-□□□	8.6 $\pm$ 30%	28	42	56	2.10	1.82
SH6028100YL□-□□□	10.0 $\pm$ 30%	25	47	65	2.00	1.70
SH6028150YL□-□□□	15.0 $\pm$ 30%	22	58	78	1.70	1.30
SH6028220YL□-□□□	22.0 $\pm$ 30%	20	88	115	1.40	1.08
SH6028330YL□-□□□	33.0 $\pm$ 30%	18	120	155	1.15	0.92
SH6028470YL□-□□□	47.0 $\pm$ 30%	16	185	235	0.92	0.72
SH6028680YL□-□□□	68.0 $\pm$ 30%	15	245	300	0.80	0.60
SH6028101YL□-□□□	100.0 $\pm$ 30%	14	385	500	0.58	0.55
SH6028151YL□-□□□	150.0 $\pm$ 30%	13	540	680	0.50	0.42
SH6028221YL□-□□□	220.0 $\pm$ 30%	12	660	820	0.45	0.36
SH6028331YL□-□□□	330.0 $\pm$ 30%	10	1100	1400	0.37	0.27
SH6028471YL□-□□□	470.0 $\pm$ 30%	9	1650	2100	0.27	0.22
SH6028681YL□-□□□	680.0 $\pm$ 30%	8	2450	3100	0.22	0.20
SH6028102YL□-□□□	1000.0 $\pm$ 30%	7	3600	4500	0.15	0.17

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

- Inductance Test Freq.: 100kHz / 0.1V
- I_{rms} base on Temp. rise 30°C max.
- I_{sat} base on $\Delta L/L_0 A=35\%$ typ.

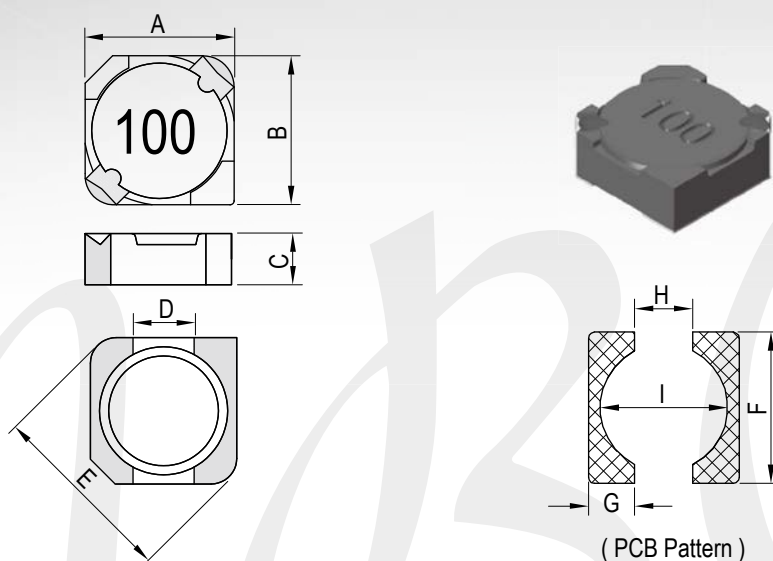
CURVE

@ Inductance VS. DC Current Curve



DH3016/3025/3040/6022-F Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I
DH3016-F	4.00 max.	4.00 max.	1.60 max.	1.40 typ.	4.80 typ.	4.20 ref.	1.40 ref.	1.30 ref.	3.10 ref.
DH3025-F	4.00 max.	4.00 max.	2.50 max.	1.40 typ.	4.80 typ.	4.20 ref.	1.40 ref.	1.30 ref.	3.10 ref.
DH3040-F	4.00 max.	4.00 max.	4.00 max.	1.30 ref.	5.20 typ.	4.60 ref.	1.60 ref.	1.30 ref.	3.00 ref.
DH6022-F	7.00 max.	7.00 max.	2.50 max.	2.70 ref.	7.80 ref.	7.20 ref.	2.35 ref.	2.50 ref.	5.70 ref.

DESCRIPTION

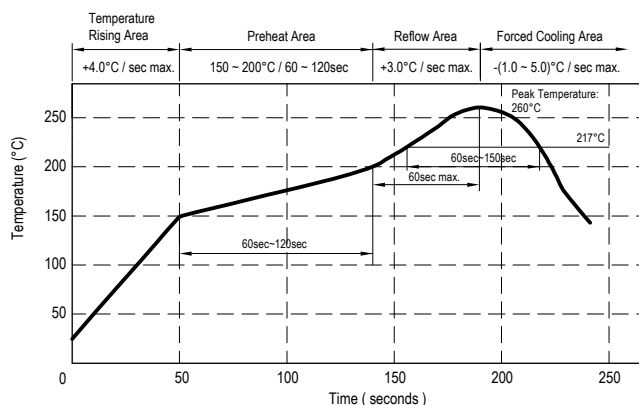
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: H class
- Product weight: 0.075 (3016) / 0.13 (3025) / 0.190 (3040) / 0.40 (6022)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat:
250°C.10 secs. (3040)
260°C.10 secs. (3016,3025,6022)
- Recommended IR Reflow:
Peak Temp: 250°C max. (3040)
260°C max. (3016,3025,6022)
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Glazing base termination offer excellent terminal strength.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.



DH3016/3025/3040/6022-F Series

ELECTRICAL CHARACTERISTICS

■ DH3016-F Series

DWG. No.	Inductance (μH)	RDC (mΩ)		Rated Current (A) max.
		max.	ref.	
DH3016R47YF□-□□□	0.47±30%	40	29	3.20
DH30161R0YF□-□□□	1.00±30%	48	36	2.25
DH30162R2YF□-□□□	2.20±30%	76	56	1.67
DH30163R3YF□-□□□	3.30±30%	110	85	1.30
DH30164R7YF□-□□□	4.70±30%	177	136	1.13
DH30166R8YF□-□□□	6.80±30%	243	187	0.95
DH3016100MF□-□□□	10.00±20%	350	269	0.79
DH3016150MF□-□□□	15.00±20%	456	377	0.65
DH3016220MF□-□□□	22.00±20%	768	590	0.52
DH3016330MF□-□□□	33.00±20%	1045	870	0.43

1. □ : Packaging information: □ Code

2. "-□□□": Reference code

3. Electrical specifications at 25°C

4. Inductance Test Freq.: 100kHz / 0.1V

5. Rated Current base on Temp. rise 40°C max. & ΔL/L0A=35% max.

■ DH3025-F Series

DWG. No.	Inductance (μH)	RDC (mΩ)		Rated Current (A) max.
		ref.	max.	
DH30251R0YF□-□□□	1.0±30%	20	28	2.30
DH30252R2YF□-□□□	2.2±30%	30	42	1.53
DH30253R3YF□-□□□	3.3±30%	41	57	1.35
DH30254R7YF□-□□□	4.7±30%	48	67	0.97
DH30256R8YF□-□□□	6.8±30%	70	98	0.85
DH3025100YF□-□□□	10.0±30%	99	133	0.72
DH3025150YF□-□□□	15.0±30%	134	180	0.63
DH3025220YF□-□□□	22.0±30%	196	265	0.54
DH3025330YF□-□□□	33.0±30%	290	390	0.40

1. □ : Packaging information: □ Code

2. "-□□□": Reference code

3. Electrical specifications at 25°C

4. Inductance Test Freq.: 100kHz / 0.1V

5. Rated Current base on Temp. rise 40°C max. & ΔL/L0A=35% max.

DH3016/3025/3040/6022-F Series

■ DH3040-F Series

DWG. No.	Inductance (μ H)	RDC (m Ω)		IDC (A) typ.
		ref.	max.	
DH3040R50YF□-□□□	0.5 $\pm$ 30%	18.4	26	3.51
DH30401R2YF□-□□□	1.2 $\pm$ 30%	24.5	34	2.95
DH30402R2YF□-□□□	2.2 $\pm$ 30%	32.8	46	2.20
DH30403R3YF□-□□□	3.3 $\pm$ 30%	39.7	56	1.90
DH30404R7YF□-□□□	4.7 $\pm$ 30%	60.2	84	1.62
DH30406R8YF□-□□□	6.8 $\pm$ 30%	76.4	103	1.26
DH30408R6YF□-□□□	8.6 $\pm$ 30%	84.0	113	1.10
DH3040100YF□-□□□	10.0 $\pm$ 30%	90.9	123	0.99
DH3040120YF□-□□□	12.0 $\pm$ 30%	107.4	145	0.95
DH3040150YF□-□□□	15.0 $\pm$ 30%	114.5	150	0.88
DH3040180YF□-□□□	18.0 $\pm$ 30%	165.5	215	0.77
DH3040220YF□-□□□	22.0 $\pm$ 30%	234.3	305	0.72
DH3040330YF□-□□□	33.0 $\pm$ 30%	280.0	340	0.57
DH3040470YF□-□□□	47.0 $\pm$ 30%	342.0	410	0.47
DH3040680YF□-□□□	68.0 $\pm$ 30%	430.0	520	0.40
DH3040820YF□-□□□	82.0 $\pm$ 30%	529.0	640	0.37
DH3040101YF□-□□□	100.0 $\pm$ 30%	704.0	840	0.32
DH3040151YF□-□□□	150.0 $\pm$ 30%	895.0	1100	0.30
DH3040221YF□-□□□	220.0 $\pm$ 30%	1300.0	1600	0.25

1. □ : Packaging information: □ Code

2. "- □□□" : Reference code

3. Electrical specifications at 25°C

4. Inductance Test Freq.: 100kHz / 0.1V

5. IDC: Δ L/L0A=20% typ., Temp. rise 40°C typ.

■ DH6022-F Series

DWG. No.	Inductance (μ H)	RDC (m Ω)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
DH60222R2YF□-□□□	2.2 $\pm$ 30%	16	22	3.15	4.50
DH60223R3YF□-□□□	3.3 $\pm$ 30%	18	25	2.70	4.15
DH60223R6YF□-□□□	3.6 $\pm$ 30%	23	30	2.48	3.87
DH60224R7YF□-□□□	4.7 $\pm$ 30%	28	36	2.25	3.30
DH60225R6YF□-□□□	5.6 $\pm$ 30%	32	42	2.07	3.05
DH60226R8YF□-□□□	6.8 $\pm$ 30%	34	44	1.80	2.85
DH60228R0YF□-□□□	8.0 $\pm$ 30%	44	57	1.71	2.66
DH6022100MF□-□□□	10.0 $\pm$ 20%	59	78	1.49	2.25
DH6022120MF□-□□□	12.0 $\pm$ 20%	66	86	1.40	2.07
DH6022150MF□-□□□	15.0 $\pm$ 20%	78	101	1.22	1.98
DH6022180MF□-□□□	18.0 $\pm$ 20%	86	108	1.17	1.89
DH6022220MF□-□□□	22.0 $\pm$ 20%	98	122	1.04	1.80
DH6022270MF□-□□□	27.0 $\pm$ 20%	124	155	0.95	1.53
DH6022330MF□-□□□	33.0 $\pm$ 20%	149	186	0.90	1.49
DH6022390MF□-□□□	39.0 $\pm$ 20%	197	246	0.77	1.22
DH6022470MF□-□□□	47.0 $\pm$ 20%	225	281	0.72	1.04
DH6022560MF□-□□□	56.0 $\pm$ 20%	282	353	0.65	0.98
DH6022680MF□-□□□	68.0 $\pm$ 20%	306	383	0.61	0.90
DH6022820MF□-□□□	82.0 $\pm$ 20%	348	435	0.56	0.85
DH6022101MF□-□□□	100.0 $\pm$ 20%	423	516	0.50	0.81

1. □ : Packaging information: □ Code

2. "- □□□" : Reference code

3. Electrical specifications at 25°C

4. Inductance Test Freq.: 100kHz / 0.1V

5. Isat base on Δ L/L0A=35% typ.

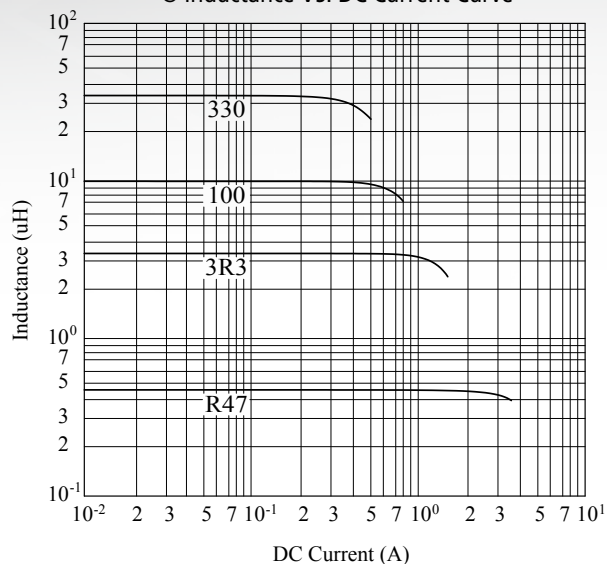
6. Irms base on Temp. rise 40°C typ.

DH3016/3025/3040/6022-F Series

CURVE

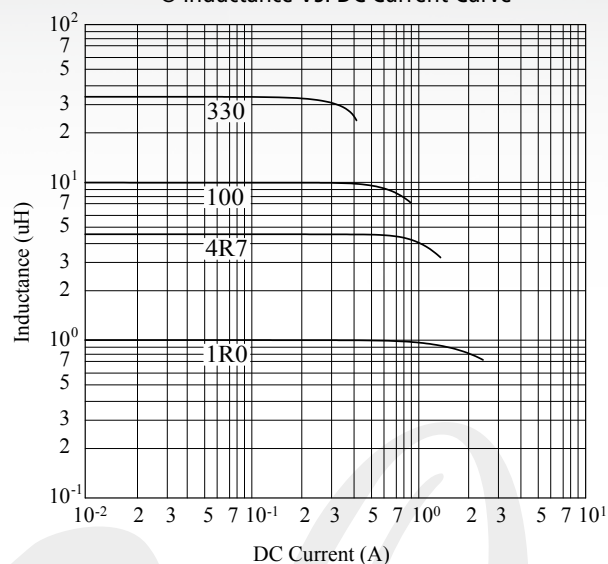
■ DH3016-F Series

@ Inductance VS. DC Current Curve



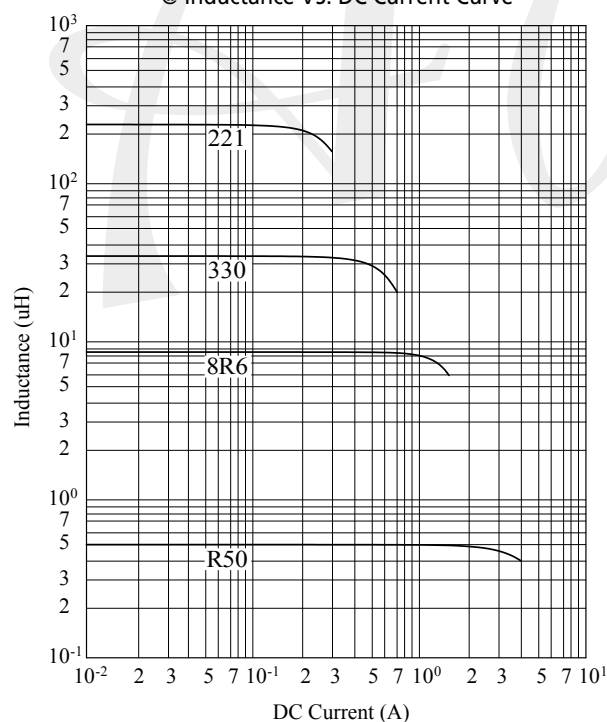
■ DH3025-F Series

@ Inductance VS. DC Current Curve



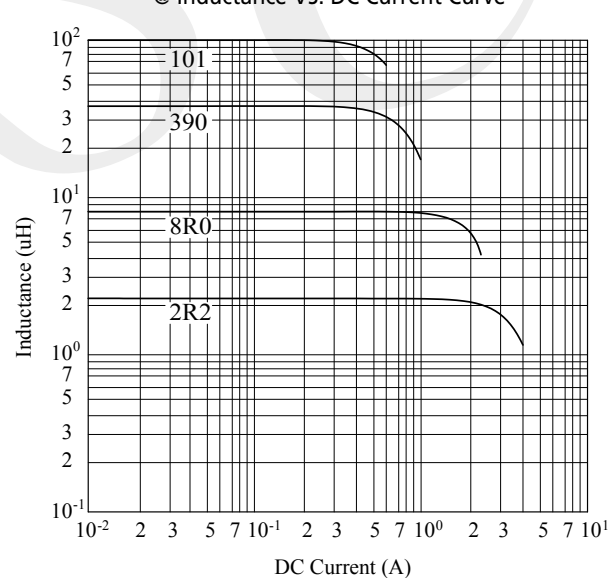
■ DH3040-F Series

@ Inductance VS. DC Current Curve



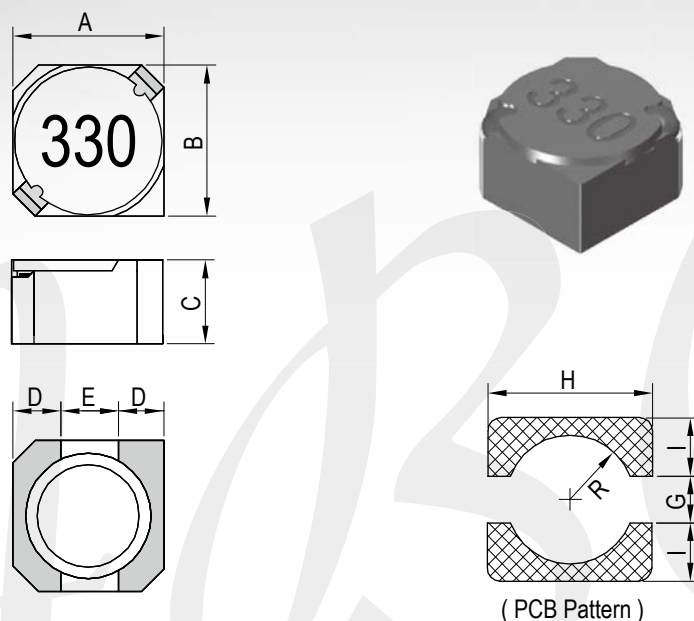
■ DH6022-F Series

@ Inductance VS. DC Current Curve



DH6038-F Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	G	H	I	R
DH6038-F	6.70±0.30	6.70±0.30	4.00 max.	2.10 typ.	2.50 typ.	2.40 ref.	7.30 ref.	2.40 ref.	3.00 ref.

DESCRIPTION

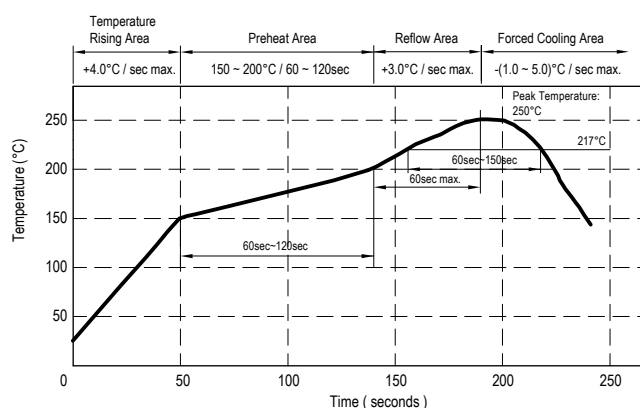
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F class
- Product weight: 0.60g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Glazing base termination offer excellent terminal strength.
- Recommended for reflow soldering PCB assembly.
- Extremely low profile design for low power switching regulator circuit.



DH6038-F Series

ELECTRICAL CHARACTERISTICS

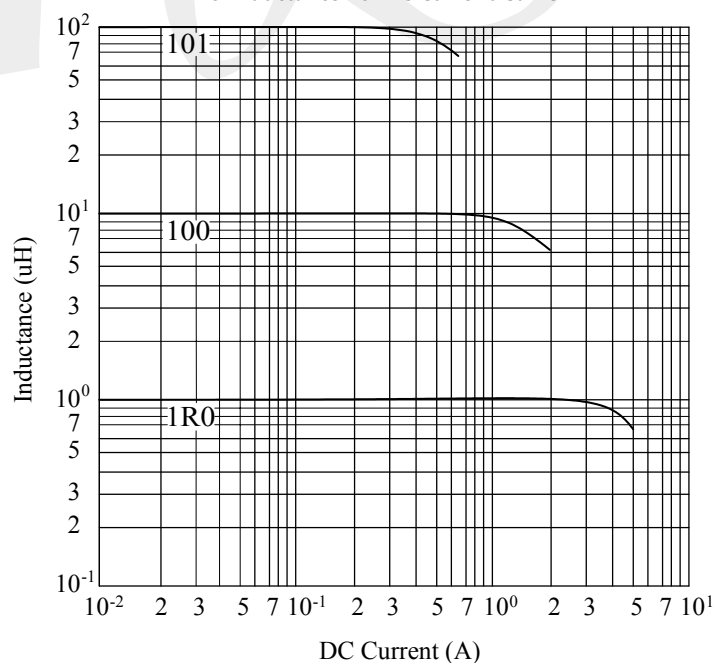
DWG. No.	Inductance (μ H)	RDC (m Ω)		Rated current (A)
		typ.	max.	
DH60381R0YF□-□□□	1.0 $\pm$ 30%	9.8	15.0	5.00
DH60383R0YF□-□□□	3.0 $\pm$ 30%	15.3	21.0	3.50
DH60385R0YF□-□□□	5.0 $\pm$ 30%	18.4	25.0	2.90
DH60386R8YF□-□□□	6.8 $\pm$ 30%	22.3	30.0	2.50
DH60388R2YF□-□□□	8.2 $\pm$ 30%	26.6	36.0	2.30
DH6038100MF□-□□□	10.0 $\pm$ 20%	35.8	50.0	2.00
DH6038120MF□-□□□	12.0 $\pm$ 20%	39.7	55.0	1.70
DH6038150MF□-□□□	15.0 $\pm$ 20%	42.8	60.0	1.60
DH6038180MF□-□□□	18.0 $\pm$ 20%	55.1	75.0	1.50
DH6038220MF□-□□□	22.0 $\pm$ 20%	64.7	87.0	1.30
DH6038270MF□-□□□	27.0 $\pm$ 20%	76.9	105.0	1.20
DH6038330MF□-□□□	33.0 $\pm$ 20%	90.3	120.0	1.10
DH6038390MF□-□□□	39.0 $\pm$ 20%	103.0	135.0	1.00
DH6038470MF□-□□□	47.0 $\pm$ 20%	123.0	160.0	0.95
DH6038560MF□-□□□	56.0 $\pm$ 20%	149.0	190.0	0.86
DH6038680MF□-□□□	68.0 $\pm$ 20%	187.0	240.0	0.75
DH6038820MF□-□□□	82.0 $\pm$ 20%	220.0	290.0	0.70
DH6038101MF□-□□□	100.0 $\pm$ 20%	266.0	345.0	0.65

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

- Inductance Test Freq.: 10kHz / 1V
- Rated current: It is either the inductance is 35% lower than its nominal value in D.C. saturation characteristics or temperature raise becomes $\Delta T=30^\circ\text{C}$ ref.

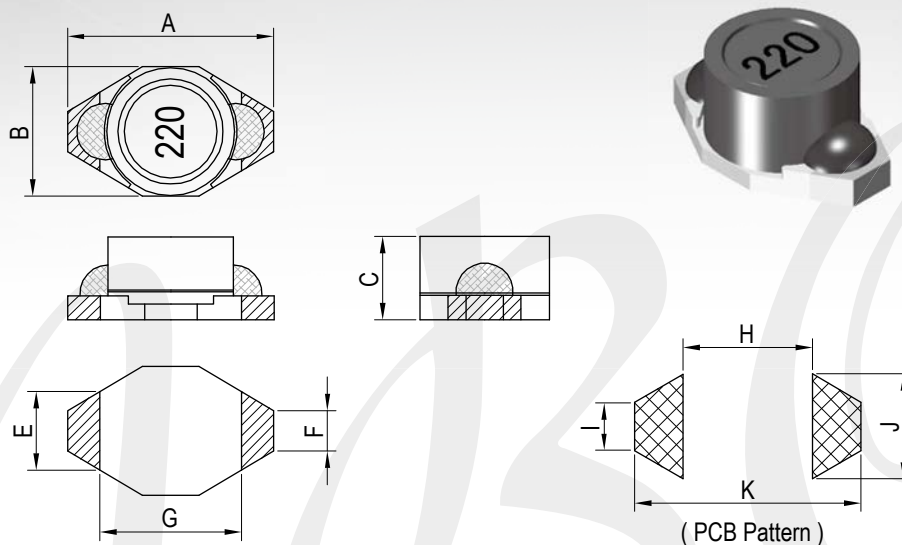
CURVE

@ Inductance VS. DC Current Curve



SS1608/4530-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	E	F	G	H	I	J	K
SS1608-L	6.50±0.20	4.40 max.	2.90±0.15	2.50 ref.	1.24 ref.	4.45 ref.	4.10 ref.	1.60 ref.	3.00 ref.	7.00 ref.
SS4530-L	6.50±0.20	4.40 max.	3.05 max.	2.50 ref.	1.24 ref.	4.45 ref.	4.10 ref.	1.60 ref.	3.00 ref.	7.00 ref.

DESCRIPTION

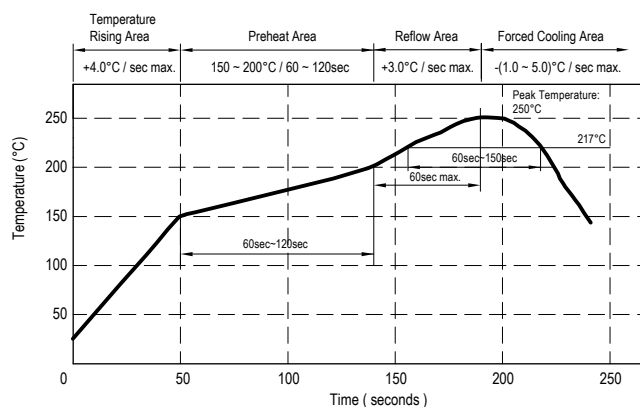
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F class
- Product weight: 0.14 (1608) / 0.11 (4530)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Ceramic substrate base with Au terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly.
- Higher inductance available for RF filter & amplifier application or low power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C (4530)
-55°C~ +125°C
- Operating temp.:
-40°C~ +125°C (Temp. rise included) (4530)
-55°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
Peak Temp: 250°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



SS1608/4530-L Series

ELECTRICAL CHARACTERISTICS

■ SS1608-L Series

DWG. No.	Inductance (μ H)	Q min.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (Ω) max.	I _{rms} (A) max.	I _{sat} (A) typ.
			L/0.1V	Q				
SS16081R0ML□-□□□	1.0±20%	10	100k	500k	250.0	0.040	3.00	1.200
SS16081R5ML□-□□□	1.5±20%	20	100k	500k	125.0	0.045	2.80	0.920
SS16082R2ML□-□□□	2.2±20%	25	100k	500k	120.0	0.050	1.80	0.800
SS16083R3ML□-□□□	3.3±20%	40	100k	200k	120.0	0.055	1.60	0.620
SS16084R7ML□-□□□	4.7±20%	40	100k	200k	105.0	0.060	1.40	0.500
SS16086R8ML□-□□□	6.8±20%	40	100k	200k	50.0	0.065	1.20	0.400
SS1608100ML□-□□□	10.0±20%	40	100k	200k	38.0	0.075	1.00	0.320
SS1608150ML□-□□□	15.0±20%	40	100k	100k	33.0	0.090	0.80	0.260
SS1608220ML□-□□□	22.0±20%	40	100k	100k	25.0	0.110	0.70	0.240
SS1608330ML□-□□□	33.0±20%	40	100k	100k	20.0	0.190	0.60	0.160
SS1608470ML□-□□□	47.0±20%	40	100k	100k	20.0	0.230	0.50	0.140
SS1608680ML□-□□□	68.0±20%	40	100k	100k	15.0	0.290	0.40	0.120
SS1608101ML□-□□□	100.0±20%	40	100k	100k	10.0	0.480	0.30	0.100
SS1608151ML□-□□□	150.0±20%	40	100k	100k	9.0	0.590	0.26	0.080
SS1608221ML□-□□□	220.0±20%	40	100k	100k	6.0	0.770	0.22	0.070
SS1608331ML□-□□□	330.0±20%	40	100k	100k	5.0	1.400	0.20	0.050
SS1608471ML□-□□□	470.0±20%	40	100k	100k	4.0	1.800	0.19	0.045
SS1608681ML□-□□□	680.0±20%	40	100k	100k	3.0	2.200	0.18	0.040
SS1608102ML□-□□□	1000.0±20%	40	100k	100k	2.0	3.400	0.15	0.028
SS1608152ML□-□□□	1500.0±20%	50	100k	100k	2.0	4.200	0.12	0.024
SS1608222ML□-□□□	2200.0±20%	50	100k	100k	2.0	8.500	0.10	0.020
SS1608332ML□-□□□	3300.0±20%	50	100k	100k	1.0	11.000	0.08	0.018
SS1608472ML□-□□□	4700.0±20%	50	100k	100k	1.0	13.900	0.06	0.014
SS1608682ML□-□□□	6800.0±20%	50	100k	100k	1.0	25.000	0.04	0.012
SS1608103ML□-□□□	10000.0±20%	50	100k	100k	0.8	32.800	0.02	0.010

1. □ : Packaging information: □ Code

2. "- □ □ □": Reference code

3. Electrical specifications at 25°C

4. I_{rms} base on Temp. rise 30°C max.5. I_{sat} base on $\Delta L/L_{0A}=10\%$ typ.

SS1608/4530-L Series

■ SS4530-L Series

DWG. No.	Inductance (mH)	Q min.	Test Freq. (Hz) L/0.1V	Insulation (M Ω) Core-Winding	SRF (MHz) typ.	RDC (Ω) max.	IDC (mA) max.
SS4530102ML□-□□□	1.0 $\pm$ 20%	50	100k	> 10	2.0	9	100
SS4530152ML□-□□□	1.5 $\pm$ 20%	50	100k	> 10	1.0	11	80
SS4530222ML□-□□□	2.2 $\pm$ 20%	50	100k	> 10	1.0	19	50
SS4530332ML□-□□□	3.3 $\pm$ 20%	50	100k	> 10	1.0	24	40
SS4530472ML□-□□□	4.7 $\pm$ 20%	50	100k	> 10	1.0	30	30
SS4530682ML□-□□□	6.8 $\pm$ 20%	50	100k	> 10	0.9	56	20
SS4530103ML□-□□□	10.0 $\pm$ 20%	50	100k	> 10	0.8	74	10

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

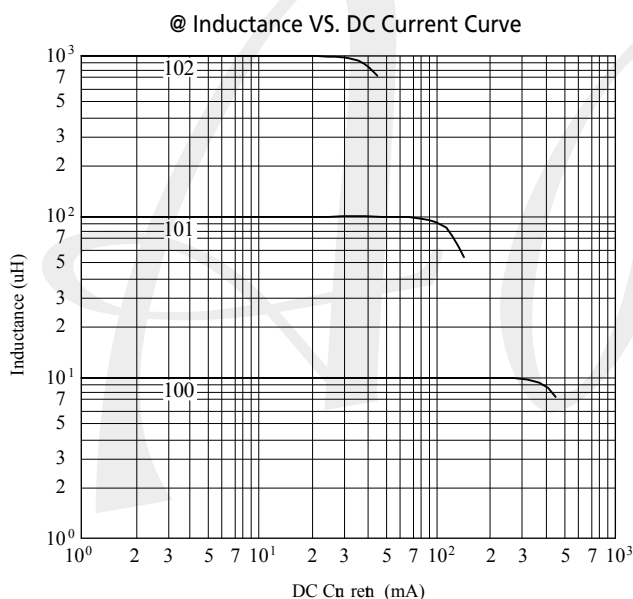
3. Electrical specifications at 25°C

5. Inductance test condition 100kHz/0.1V

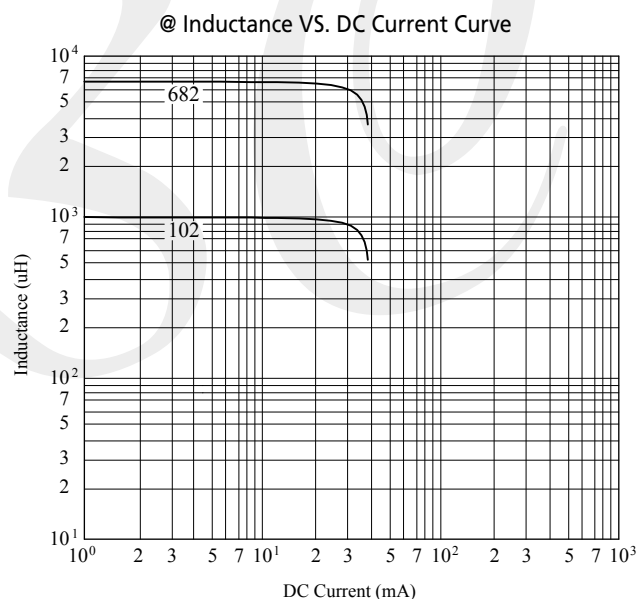
6. IDC base on Temp. rise 30°C max.

CURVE

■ SS1608-L Series

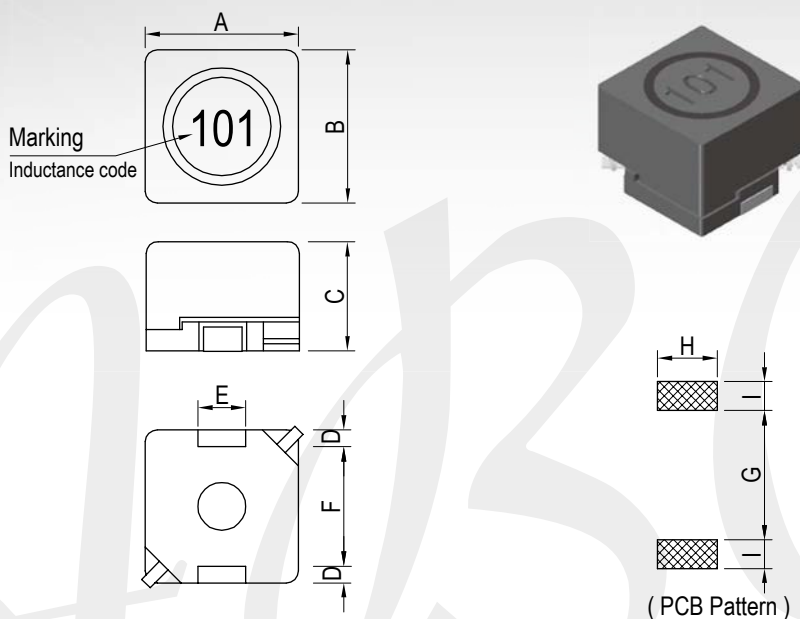


■ SS4530-L Series



SS0603/0604-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I
SS0603-L	6.50±0.30	6.50±0.30	3.10±0.30	0.80+0.2/-0.3	1.85±0.2	5.00 typ.	4.30 ref.	2.50 ref.	1.50 ref.
SS0604-L	6.50±0.30	6.50±0.30	4.60±0.30	0.80+0.2/-0.3	1.85±0.2	5.00 typ.	4.30 ref.	2.50 ref.	1.50 ref.

DESCRIPTION

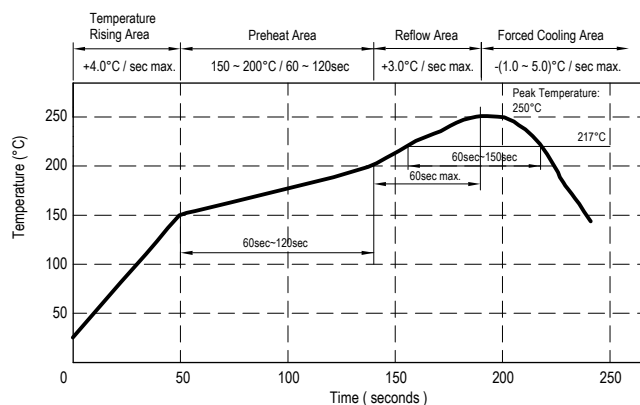
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F class
- Product weight: 0.41 (0603) / 0.63 (0604)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Engineering plastic substrate base with tinned copper terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.



SS0603/0604-L Series

ELECTRICAL CHARACTERISTICS

■ SS0603-L Series

DWG. No.	Inductance (μH)	Test Freq. (Hz)	RDC (Ω) max.	IDC (A) max.
SS06031R5ML□-□□□	1.5±20%	1k	0.032	2.20
SS06032R5ML□-□□□	2.5±20%	1k	0.040	2.00
SS06033R3ML□-□□□	3.3±20%	1k	0.055	1.80
SS06034R7ML□-□□□	4.7±20%	1k	0.070	1.60
SS06036R8ML□-□□□	6.8±20%	1k	0.100	1.20
SS0603100ML□-□□□	10.0±20%	1k	0.120	1.10
SS0603150ML□-□□□	15.0±20%	1k	0.180	0.90
SS0603220ML□-□□□	22.0±20%	1k	0.270	0.70
SS0603330KL□-□□□	33.0±10%	1k	0.430	0.60
SS0603470KL□-□□□	47.0±10%	1k	0.550	0.50
SS0603680KL□-□□□	68.0±10%	1k	0.900	0.40
SS0603101KL□-□□□	100.0±10%	1k	1.500	0.30
SS0603151KL□-□□□	150.0±10%	1k	1.900	0.25
SS0603221KL□-□□□	220.0±10%	1k	2.700	0.20
SS0603331KL□-□□□	330.0±10%	1k	4.200	0.18
SS0603471KL□-□□□	470.0±10%	1k	6.700	0.15
SS0603681KL□-□□□	680.0±10%	1k	10.500	0.12
SS0603102KL□-□□□	1000.0±10%	1k	14.000	0.10

■ SS0604-L Series

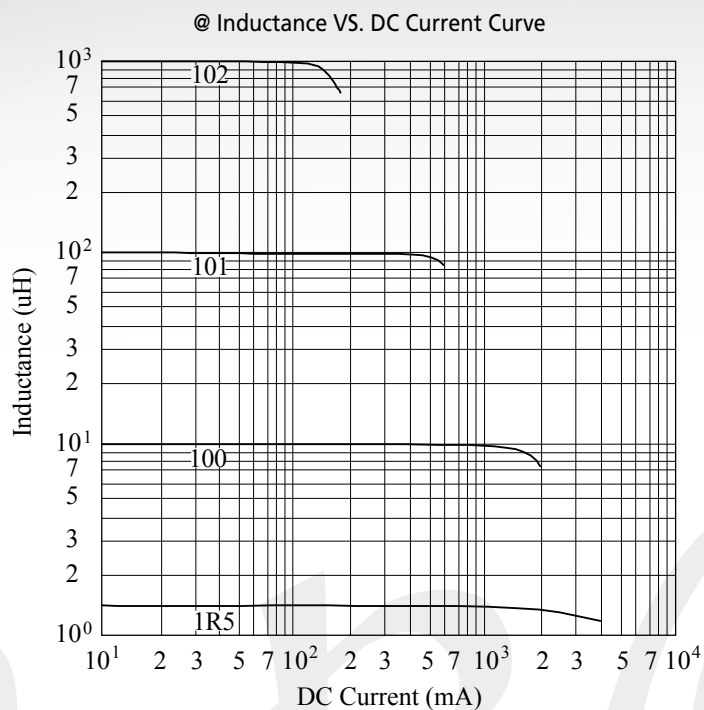
DWG. No.	Inductance (μH)	Test Freq. (Hz)	RDC (Ω) max.	IDC (A) max.
SS06041R5ML□-□□□	1.5±20%	1k	0.028	2.80
SS06042R5ML□-□□□	2.5±20%	1k	0.035	2.50
SS06043R3ML□-□□□	3.3±20%	1k	0.050	2.30
SS06044R7ML□-□□□	4.7±20%	1k	0.060	2.00
SS06046R8ML□-□□□	6.8±20%	1k	0.070	1.60
SS0604100ML□-□□□	10.0±20%	1k	0.120	1.30
SS0604150ML□-□□□	15.0±20%	1k	0.130	1.10
SS0604220ML□-□□□	22.0±20%	1k	0.190	0.90
SS0604330KL□-□□□	33.0±10%	1k	0.250	0.70
SS0604470KL□-□□□	47.0±10%	1k	0.360	0.60
SS0604680KL□-□□□	68.0±10%	1k	0.520	0.50
SS0604101KL□-□□□	100.0±10%	1k	0.650	0.40
SS0604151KL□-□□□	150.0±10%	1k	1.000	0.30
SS0604221KL□-□□□	220.0±10%	1k	1.700	0.25
SS0604331KL□-□□□	330.0±10%	1k	2.100	0.20
SS0604471KL□-□□□	470.0±10%	1k	3.300	0.18
SS0604681KL□-□□□	680.0±10%	1k	4.800	0.15
SS0604102KL□-□□□	1000.0±10%	1k	6.100	0.12

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C
- IDC base on Temp. rise 40°C max. & ΔL/L0A=10% max.

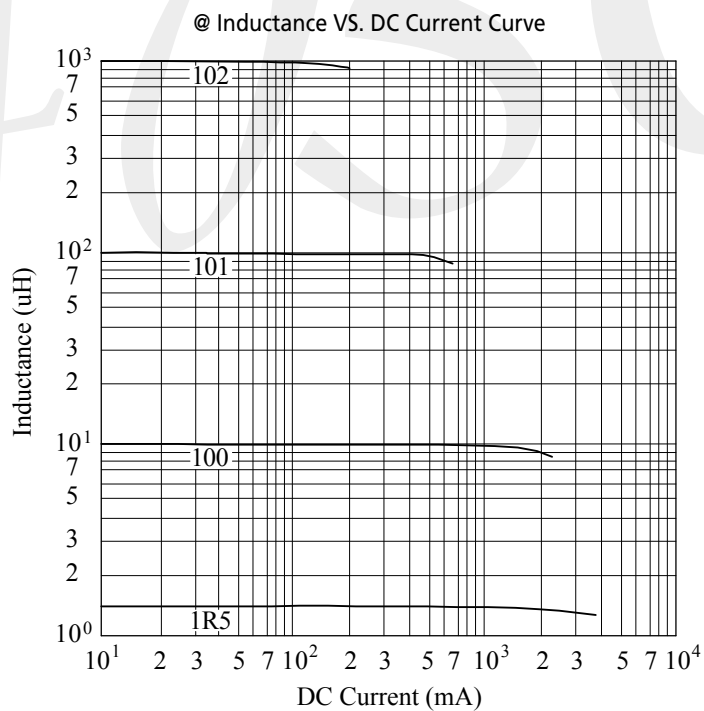
SS0603/0604-L Series

CURVE

■ SS0603-L Series

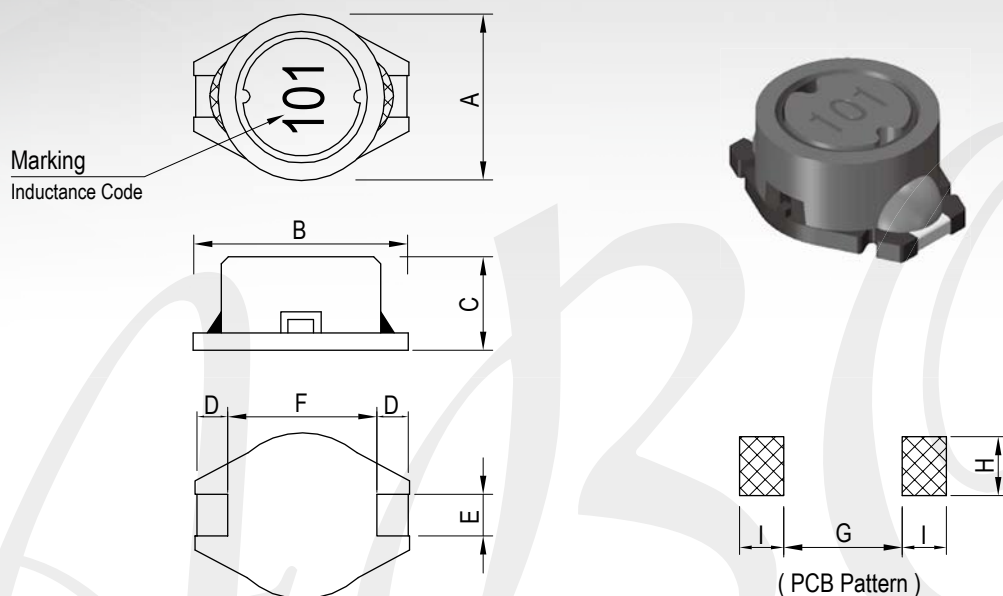


■ SS0604-L Series



SS0805-F Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I
SS0805-F	8.00±0.30	10.50±0.30	4.50±0.30	2.10±0.20	2.00±0.20	6.00±0.30	5.70 ref.	2.20 ref.	2.40 ref.

DESCRIPTION

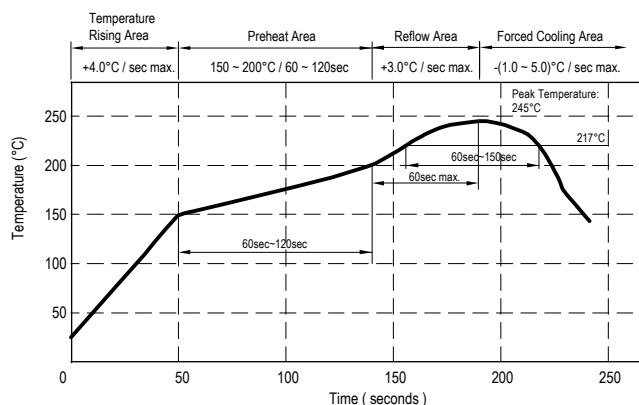
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F class
- Product weight: 0.83g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Engineering plastic substrate base with tinned copper terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40 °C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs.
- Recommended IR Reflow:
Peak Temp: 245°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



SS0805-F Series

ELECTRICAL CHARACTERISTICS

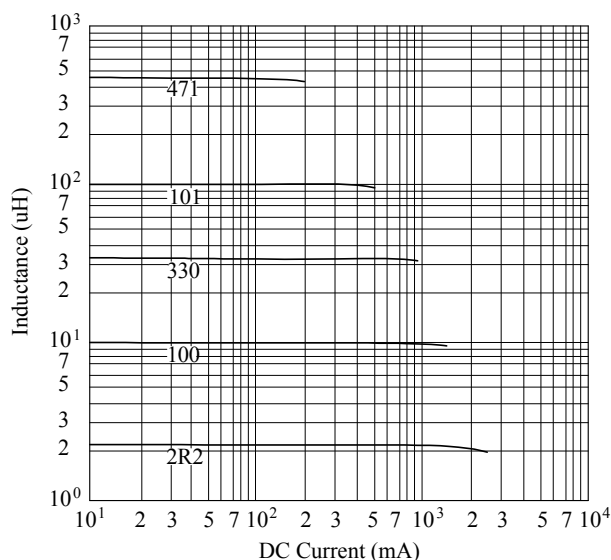
DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (Ω) max.	IDC (A) max.
			L	Q			
SS08052R2MF□-□□□	2.2 $\pm$ 20%	18	1k	7.960M	75.0	0.040	2.50
SS08053R9MF□-□□□	3.9 $\pm$ 20%	20	1k	7.960M	50.0	0.055	2.10
SS08055R6MF□-□□□	5.6 $\pm$ 20%	20	1k	7.960M	40.0	0.065	1.95
SS08058R2MF□-□□□	8.2 $\pm$ 20%	19	1k	7.960M	32.0	0.080	1.75
SS0805100MF□-□□□	10.0 $\pm$ 20%	40	1k	2.520M	28.0	0.100	1.50
SS0805120MF□-□□□	12.0 $\pm$ 20%	40	1k	2.520M	24.0	0.120	1.40
SS0805150MF□-□□□	15.0 $\pm$ 20%	40	1k	2.520M	22.0	0.140	1.30
SS0805180YF□-□□□	18.0 $\pm$ 15%	40	1k	2.520M	19.0	0.160	1.20
SS0805220YF□-□□□	22.0 $\pm$ 15%	38	1k	2.520M	17.0	0.180	1.10
SS0805270YF□-□□□	27.0 $\pm$ 15%	35	1k	2.520M	15.5	0.200	1.00
SS0805330YF□-□□□	33.0 $\pm$ 15%	40	1k	2.520M	13.5	0.240	0.92
SS0805390YF□-□□□	39.0 $\pm$ 15%	35	1k	2.520M	12.0	0.260	0.84
SS0805470YF□-□□□	47.0 $\pm$ 15%	32	1k	2.520M	10.5	0.280	0.75
SS0805560KF□-□□□	56.0 $\pm$ 10%	30	1k	2.520M	9.5	0.380	0.68
SS0805680KF□-□□□	68.0 $\pm$ 10%	28	1k	2.520M	9.0	0.440	0.60
SS0805820KF□-□□□	82.0 $\pm$ 10%	28	1k	2.520M	8.5	0.550	0.54
SS0805101KF□-□□□	100.0 $\pm$ 10%	45	1k	0.796M	7.5	0.600	0.50
SS0805121KF□-□□□	120.0 $\pm$ 10%	42	1k	0.796M	7.0	0.750	0.45
SS0805151KF□-□□□	150.0 $\pm$ 10%	39	1k	0.796M	6.5	0.900	0.40
SS0805181KF□-□□□	180.0 $\pm$ 10%	41	1k	0.796M	4.8	1.050	0.35
SS0805221KF□-□□□	220.0 $\pm$ 10%	38	1k	0.796M	4.5	1.180	0.30
SS0805271KF□-□□□	270.0 $\pm$ 10%	37	1k	0.796M	4.2	1.400	0.27
SS0805331KF□-□□□	330.0 $\pm$ 10%	36	1k	0.796M	3.8	1.800	0.24
SS0805471KF□-□□□	470.0 $\pm$ 10%	34	1k	0.796M	3.5	2.250	0.20
SS0805561KF□-□□□	560.0 $\pm$ 10%	32	1k	0.796M	3.0	3.000	0.18
SS0805681KF□-□□□	680.0 $\pm$ 10%	32	1k	0.796M	2.8	3.400	0.17
SS0805821KF□-□□□	820.0 $\pm$ 10%	35	1k	0.796M	2.5	4.000	0.16
SS0805102KF□-□□□	1000.0 $\pm$ 10%	35	1k	0.252M	2.2	5.000	0.15

1. □: Packaging information: □ Code
 2. "-□□□": Reference code

3. Electrical specifications at 25°C
 4. IDC base on Temp. rise 40°C max. & $\Delta L/L0A=10\%$ max.

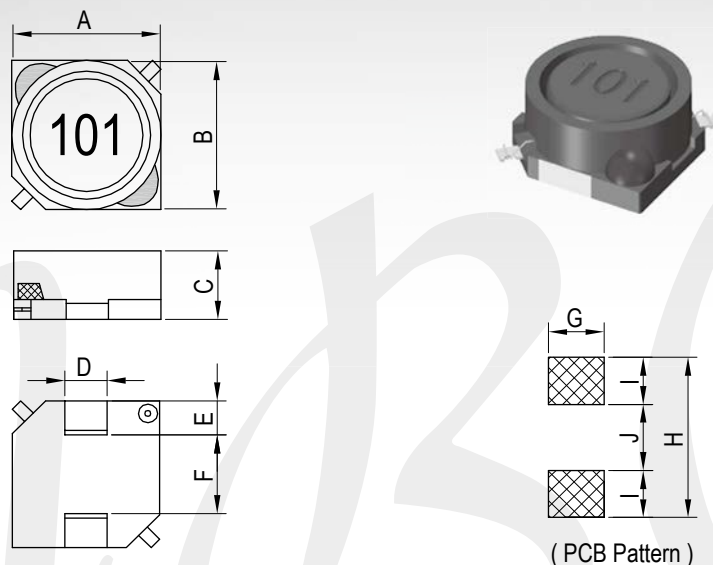
CURVE

@ Inductance VS. DC Current Curve



SS6028/6038-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I	J
SS6028-L	6.00±0.30	6.00±0.30	2.80±0.30	2.00±0.30	1.90 typ.	2.20 ref.	2.40 ref.	6.70 ref.	2.30 ref.	2.10 ref.
SS6038-L	6.00±0.30	6.00±0.30	3.80±0.30	2.00±0.30	1.90 typ.	2.20 ref.	2.40 ref.	6.70 ref.	2.30 ref.	2.10 ref.

DESCRIPTION

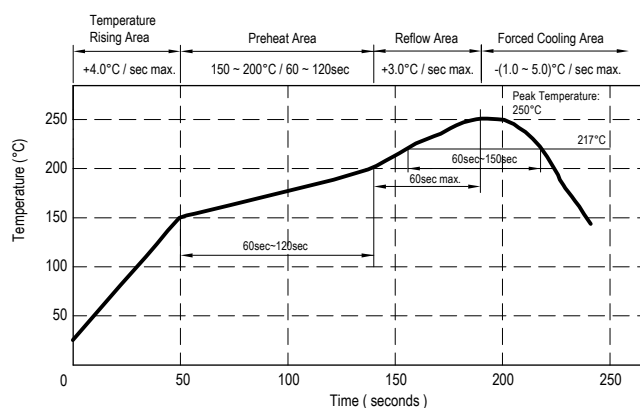
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F class
- Product weight: 0.21 (6028) / 0.30 (6038)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Drum ferrite + shielded ring make close magnetic circuit in low leakage field for high density PCB assembly.
- Engineering plastic base with tinned copper terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40 °C~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



SS6028/6038-L Series

ELECTRICAL CHARACTERISTICS

■ SS6028-L Series

DWG. No.	Inductance (μH)	Test Freq. (Hz)	RDC (Ω) max.	I _{rms} (A) max.	I _{sat} (A) max.
SS60281R0ML□-□□□	1.0±20%	1k	0.022	3.80	3.00
SS60281R5ML□-□□□	1.5±20%	1k	0.025	3.20	2.50
SS60282R2ML□-□□□	2.2±20%	1k	0.032	3.00	2.20
SS60283R3ML□-□□□	3.3±20%	1k	0.044	1.92	1.55
SS60284R7ML□-□□□	4.7±20%	1k	0.050	1.80	1.35
SS60286R8ML□-□□□	6.8±20%	1k	0.070	1.45	1.20
SS6028100ML□-□□□	10.0±20%	1k	0.105	1.20	1.00
SS6028150ML□-□□□	15.0±20%	1k	0.140	1.00	0.80
SS6028220ML□-□□□	22.0±20%	1k	0.220	0.80	0.65
SS6028330ML□-□□□	33.0±20%	1k	0.280	0.65	0.55
SS6028470ML□-□□□	47.0±20%	1k	0.380	0.55	0.48
SS6028680ML□-□□□	68.0±20%	1k	0.600	0.45	0.38
SS6028101ML□-□□□	100.0±20%	1k	0.840	0.38	0.31
SS6028151ML□-□□□	150.0±20%	1k	1.200	0.30	0.26
SS6028221ML□-□□□	220.0±20%	1k	1.700	0.25	0.22
SS6028331ML□-□□□	330.0±20%	1k	2.450	0.20	0.17
SS6028471ML□-□□□	470.0±20%	1k	3.600	0.17	0.14
SS6028681ML□-□□□	680.0±20%	1k	5.400	0.13	0.11
SS6028102ML□-□□□	1000.0±20%	1k	8.200	0.11	0.09

■ SS6038-L Series

DWG. No.	Inductance (μH)	Test Freq. (Hz)	RDC (Ω) max.	I _{rms} (A) max.	I _{sat} (A) max.
SS60381R0ML□-□□□	1.0±20%	1k	0.018	3.70	4.00
SS60381R5ML□-□□□	1.5±20%	1k	0.020	3.40	3.40
SS60382R2ML□-□□□	2.2±20%	1k	0.030	2.70	2.65
SS60383R3ML□-□□□	3.3±20%	1k	0.033	2.50	2.20
SS60384R7ML□-□□□	4.7±20%	1k	0.040	2.20	1.90
SS60386R8ML□-□□□	6.8±20%	1k	0.050	2.00	1.60
SS6038100ML□-□□□	10.0±20%	1k	0.065	1.80	1.30
SS6038150ML□-□□□	15.0±20%	1k	0.100	1.15	1.10
SS6038220ML□-□□□	22.0±20%	1k	0.150	1.00	0.85
SS6038330ML□-□□□	33.0±20%	1k	0.220	0.85	0.65
SS6038470ML□-□□□	47.0±20%	1k	0.300	0.70	0.55
SS6038680ML□-□□□	68.0±20%	1k	0.390	0.60	0.45
SS6038101ML□-□□□	100.0±20%	1k	0.570	0.46	0.38
SS6038151ML□-□□□	150.0±20%	1k	0.900	0.34	0.32
SS6038221ML□-□□□	220.0±20%	1k	1.250	0.29	0.27
SS6038331ML□-□□□	330.0±20%	1k	1.850	0.23	0.22
SS6038471ML□-□□□	470.0±20%	1k	2.700	0.20	0.19
SS6038681ML□-□□□	680.0±20%	1k	3.800	0.17	0.15
SS6038102ML□-□□□	1000.0±20%	1k	5.800	0.14	0.13

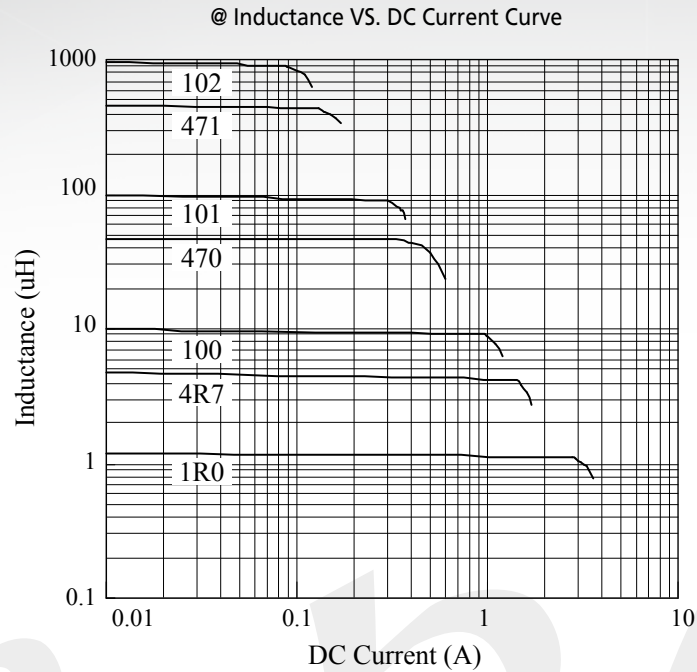
- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

- I_{rms} base on Temp. rise 40°C max.
- I_{sat} base on ΔL/L0A=25% max.
- Inductance test condition 1kHz/0.5V

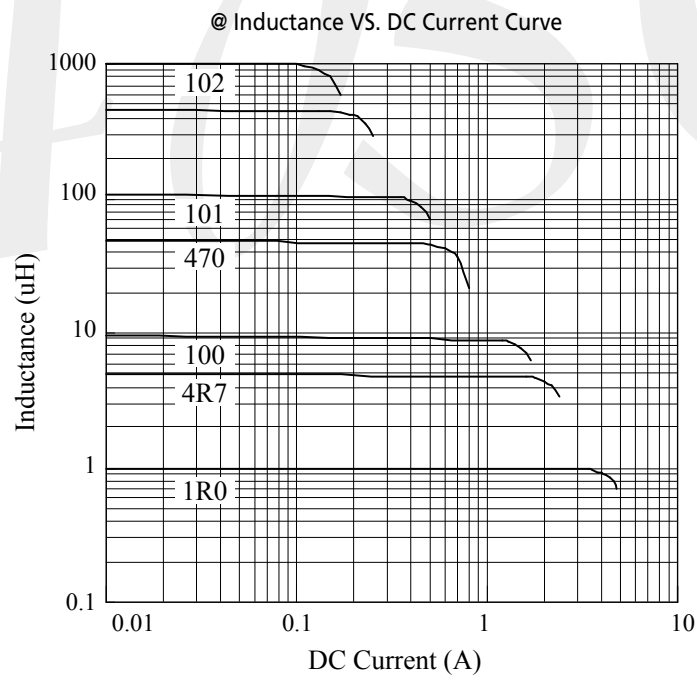
SS6028/6038-L Series

CURVE

■ SS6028-L Series

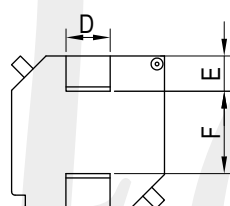
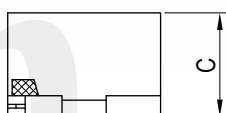
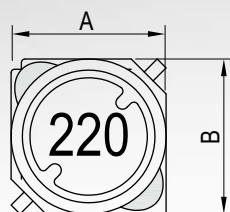


■ SS6038-L Series

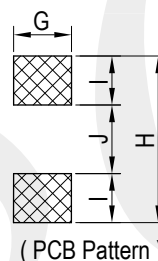


SS7032/7045-L Series

CONFIGURATION & DIMENSIONS



* SS7032



(PCB Pattern)

Unit: mm

Series	A	B	C	D	E	F	G	H	I	J
SS7032-L	7.00±0.30	7.00±0.30	3.20±0.20	2.00 typ.	1.50 typ.	4.00 typ.	2.40 ref.	7.80 ref.	1.80 ref.	4.20 ref.
SS7045-L	7.00±0.30	7.00±0.30	4.50±0.30	2.00 typ.	1.50 typ.	4.00 typ.	2.40 ref.	7.80 ref.	1.80 ref.	4.20 ref.

DESCRIPTION

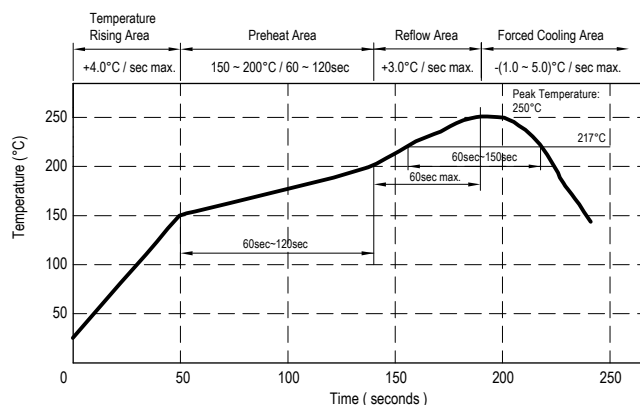
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F class
- Product weight: 0.45 (7032) / 0.60 (7045)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40 °C~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Drum ferrite + shielded ring make close magnetic circuit in low leakage field for high density PCB assembly.
- Engineering plastic base with tinned copper terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.



SS7032/7045-L Series

ELECTRICAL CHARACTERISTICS

■ SS7032-L Series

DWG. No.	Inductance (μH)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (Ω) max.	Irms (A) max.	Isat (A) typ.
SS70323R3ML□-□□□	3.3±20%	16	7.96	55.0	0.027	2.40	2.20
SS70324R7ML□-□□□	4.7±20%	16	7.96	43.0	0.042	2.00	2.00
SS70326R8ML□-□□□	6.8±20%	17	7.96	37.0	0.054	1.60	1.80
SS7032100ML□-□□□	10.0±20%	25	2.52	35.0	0.068	1.40	1.60
SS7032150ML□-□□□	15.0±20%	22	2.52	32.0	0.095	1.10	1.20
SS7032220ML□-□□□	22.0±20%	20	2.52	29.0	0.135	0.96	1.05
SS7032330ML□-□□□	33.0±20%	23	2.52	20.0	0.200	0.76	0.86
SS7032470ML□-□□□	47.0±20%	26	2.52	18.0	0.270	0.67	0.70
SS7032680ML□-□□□	68.0±20%	22	2.52	16.0	0.380	0.60	0.67
SS7032101ML□-□□□	100.0±20%	28	0.796	12.0	0.540	0.45	0.50
SS7032151ML□-□□□	150.0±20%	35	0.796	10.0	0.800	0.37	0.38
SS7032221ML□-□□□	220.0±20%	47	0.796	7.5	1.300	0.30	0.32
SS7032331ML□-□□□	330.0±20%	46	0.796	6.1	1.900	0.22	0.24
SS7032471ML□-□□□	470.0±20%	34	0.796	5.1	2.400	0.20	0.20
SS7032681ML□-□□□	680.0±20%	58	0.796	3.8	3.750	0.16	0.15
SS7032102ML□-□□□	1000.0±20%	120	0.252	3.1	5.400	0.15	0.14

- : Packaging information: □ Code
- "- □□□": Reference code
- Electrical specifications at 25°C

- Irms base on Temp. rise 30°C max.
- Isat base on ΔL/L0A=10% typ.
- Inductance test condition 1kHz/0.5V

■ SS7045-L Series

DWG. No.	Inductance (μH)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (Ω) max.	Irms (A) max.	Isat (A) typ.
SS70451R0ML□-□□□	1.0±20%	10	7.96	60	0.020	3.500	4.500
SS70452R2ML□-□□□	2.2±20%	10	7.96	50	0.022	2.800	2.800
SS70453R3ML□-□□□	3.3±20%	12	7.96	45	0.027	2.800	2.600
SS70453R9ML□-□□□	3.9±20%	12	7.96	38	0.030	2.750	2.500
SS70454R7ML□-□□□	4.7±20%	12	7.96	35	0.033	2.600	2.300
SS70455R6ML□-□□□	5.6±20%	12	7.96	35	0.035	2.400	2.200
SS70456R8ML□-□□□	6.8±20%	10	7.96	30	0.036	2.200	2.000
SS70458R2ML□-□□□	8.2±20%	10	7.96	30	0.041	2.100	1.850
SS7045100ML□-□□□	10.0±20%	30	2.52	25	0.042	2.000	1.700
SS7045120ML□-□□□	12.0±20%	27	2.52	23	0.050	1.850	1.700
SS7045150ML□-□□□	15.0±20%	31	2.52	24	0.062	1.600	1.475
SS7045180ML□-□□□	18.0±20%	29	2.52	21	0.070	1.500	1.375
SS7045220ML□-□□□	22.0±20%	26	2.52	18	0.082	1.350	1.000
SS7045270ML□-□□□	27.0±20%	25	2.52	18	0.110	1.250	1.000
SS7045330ML□-□□□	33.0±20%	25	2.52	12	0.115	1.150	0.900
SS7045390ML□-□□□	39.0±20%	26	2.52	13	0.130	1.100	0.800
SS7045470ML□-□□□	47.0±20%	29	2.52	11	0.150	0.950	0.780
SS7045560ML□-□□□	56.0±20%	21	2.52	11	0.200	0.850	0.700
SS7045680ML□-□□□	68.0±20%	22	2.52	10	0.210	0.770	0.600
SS7045820ML□-□□□	82.0±20%	20	2.52	8	0.280	0.700	0.550
SS7045101ML□-□□□	100.0±20%	40	0.796	8	0.300	0.650	0.500

SS7032/7045-L Series

■ SS7045-L Series

DWG. No.	Inductance (μH)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (Ω) max.	I _{rms} (A) max.	I _{sat} (A) typ.
SS7045121ML□-□□□	120.0±20%	30	0.796	7	0.420	0.600	0.500
SS7045151ML□-□□□	150.0±20%	51	0.796	7	0.480	0.530	0.410
SS7045181ML□-□□□	180.0±20%	52	0.796	5	0.660	0.475	0.375
SS7045221ML□-□□□	220.0±20%	44	0.796	5	0.700	0.450	0.360
SS7045271ML□-□□□	270.0±20%	30	0.796	5	0.700	0.425	0.300
SS7045331ML□-□□□	330.0±20%	65	0.796	4	0.730	0.400	0.250
SS7045391ML□-□□□	390.0±20%	27	0.796	5	1.000	0.350	0.230
SS7045471ML□-□□□	470.0±20%	80	0.796	3	1.100	0.320	0.220
SS7045561ML□-□□□	560.0±20%	27	0.796	4	1.600	0.300	0.200
SS7045681ML□-□□□	680.0±20%	65	0.796	3	1.600	0.270	0.200
SS7045821ML□-□□□	820.0±20%	26	0.796	3	2.200	0.260	0.175
SS7045102ML□-□□□	1000.0±20%	90	0.252	3	2.400	0.250	0.150

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. I_{rms} base on Temp. rise 30°C max.

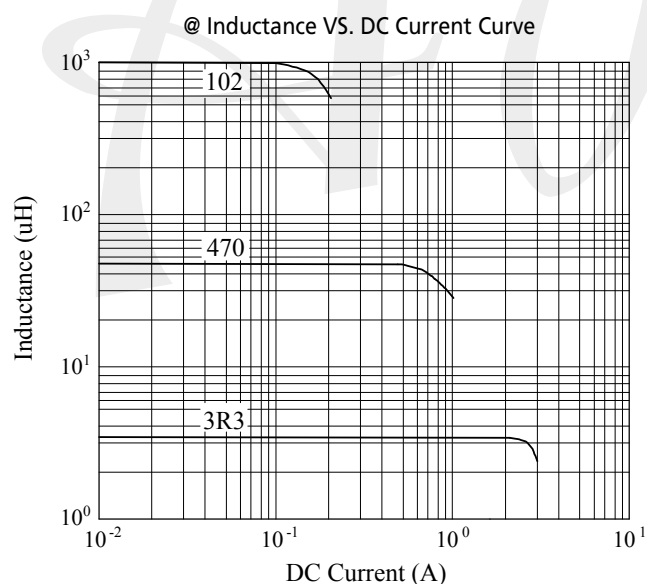
5. I_{sat} base on ΔL/L0A=10% typ. (1R0M~221M)

I_{sat} base on ΔL/L0A=25% typ. (271M~102M)

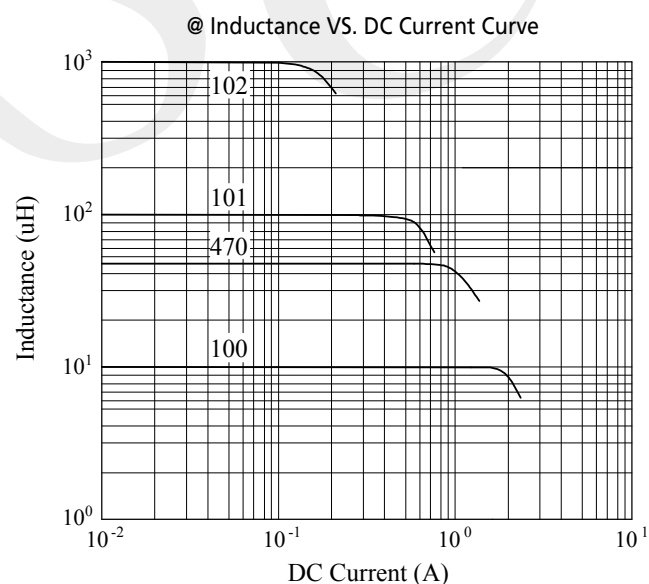
6. Inductance test condition 1kHz/0.5V

CURVE

■ SS7032-L Series

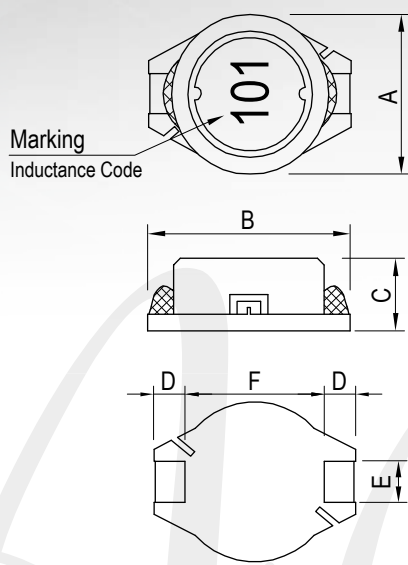


■ SS7045-L Series



SS1003/1005/1806-L Series

CONFIGURATION & DIMENSIONS



(PCB Pattern)

Unit: mm

Series	A	B	C	D	E	F	G	H	I
SS1003-L	10.10±0.30	12.70±0.30	2.70±0.30	2.40±0.20	2.20 ref.	7.60±0.30	7.30 ref.	2.80 ref.	3.00 ref.
SS1005-L	10.00±0.30	12.70±0.30	4.90±0.30	2.40±0.20	2.20±0.20	7.60±0.30	7.30 ref.	2.80 ref.	3.00 ref.
SS1806-L	14.00±0.50	18.20±0.50	6.80±0.30	2.50±0.20	2.60±0.20	13.00±0.30	12.70 ref.	2.90 ref.	3.20 ref.

DESCRIPTION

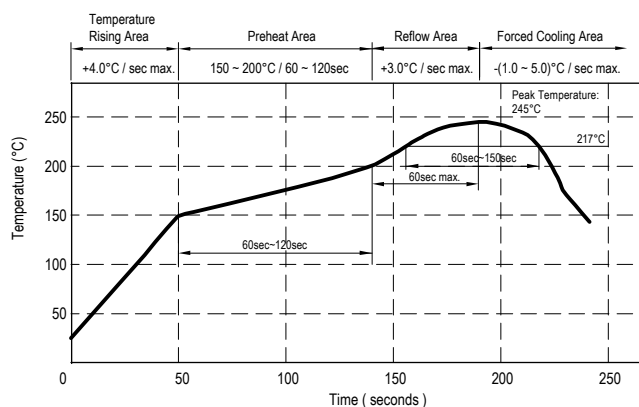
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F class
- Product weight: 0.74 (1003) / 1.26 (1005) / 3.30 (1806)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs. (1005,1806)
250°C.10 secs. (1003)
- Recommended IR Reflow:
Peak Temp: 245°C max. (1005,1806)
250°C max. (1003)
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Patent design on glazing basis terminal with excellent terminal strength.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.



SS1003/1005/1806-L Series

ELECTRICAL CHARACTERISTICS

■ SS1003-L Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		RDC (Ω) max.	I _{rms} (A) max.	I _{sat} (A) max.
			L	Q			
SS10031R8ML□-□□□	1.8 $\pm$ 20%	10	1k	7.96 M	0.038	3.00	3.60
SS10032R2ML□-□□□	2.2 $\pm$ 20%	11	1k	7.96 M	0.045	2.76	3.40
SS10033R0ML□-□□□	3.0 $\pm$ 20%	11	1k	7.96 M	0.062	2.20	2.60
SS10033R9ML□-□□□	3.9 $\pm$ 20%	10	1k	7.96 M	0.070	2.10	2.40
SS10034R7ML□-□□□	4.7 $\pm$ 20%	10	1k	7.96 M	0.078	1.90	2.30
SS10037R5ML□-□□□	7.5 $\pm$ 20%	10	1k	7.96 M	0.100	1.44	1.70
SS1003100ML□-□□□	10.0 $\pm$ 20%	18	1k	2.52 M	0.145	1.24	1.50
SS1003120ML□-□□□	12.0 $\pm$ 20%	20	1k	2.52 M	0.185	1.10	1.30
SS1003150ML□-□□□	15.0 $\pm$ 20%	20	1k	2.52 M	0.200	1.02	1.20
SS1003180ML□-□□□	18.0 $\pm$ 20%	20	1k	2.52 M	0.270	0.90	1.10
SS1003220ML□-□□□	22.0 $\pm$ 20%	17	1k	2.52 M	0.300	0.80	1.00
SS1003270ML□-□□□	27.0 $\pm$ 20%	17	1k	2.52 M	0.400	0.75	0.90
SS1003330ML□-□□□	33.0 $\pm$ 20%	17	1k	2.52 M	0.450	0.70	0.85
SS1003390ML□-□□□	39.0 $\pm$ 20%	18	1k	2.52 M	0.560	0.65	0.80
SS1003470ML□-□□□	47.0 $\pm$ 20%	18	1k	2.52 M	0.650	0.60	0.72
SS1003560ML□-□□□	56.0 $\pm$ 20%	15	1k	2.52 M	0.680	0.52	0.65
SS1003680ML□-□□□	68.0 $\pm$ 20%	15	1k	2.52 M	0.800	0.48	0.58
SS1003820ML□-□□□	82.0 $\pm$ 20%	20	1k	2.52 M	1.200	0.42	0.52
SS1003101ML□-□□□	100.0 $\pm$ 20%	23	1k	0.796M	1.400	0.40	0.48
SS1003121ML□-□□□	120.0 $\pm$ 20%	22	1k	0.796M	1.520	0.35	0.44
SS1003151ML□-□□□	150.0 $\pm$ 20%	23	1k	0.796M	1.800	0.32	0.40
SS1003181ML□-□□□	180.0 $\pm$ 20%	20	1k	0.796M	2.200	0.28	0.35
SS1003221ML□-□□□	220.0 $\pm$ 20%	20	1k	0.796M	2.200	0.26	0.32
SS1003271YL□-□□□	270.0 $\pm$ 15%	26	1k	0.796M	3.100	0.22	0.28
SS1003331YL□-□□□	330.0 $\pm$ 15%	26	1k	0.796M	3.600	0.20	0.26
SS1003391YL□-□□□	390.0 $\pm$ 15%	28	1k	0.796M	4.600	0.18	0.22
SS1003471YL□-□□□	470.0 $\pm$ 15%	28	1k	0.796M	5.100	0.16	0.20

1. □ : Packaging information: □ Code

2. "-□□□": Reference code

3. Electrical specifications at 25°C

4. Inductance Test Freq. at 1kHz / 1V

5. I_{rms} base on Temp. rise 40°C max.6. I_{sat} base on $\Delta L/L_0 A=10\%$ max.

SS1003/1005/1806-L Series

■ SS1005-L Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (Ω) max.	IDC (A) max.
			L	Q			
SS10051R0ML□-□□□	1.0 $\pm$ 20%	25	1k	7.960M	120.0	0.017	4.50
SS10051R5ML□-□□□	1.5 $\pm$ 20%	25	1k	7.960M	100.0	0.020	3.60
SS10052R2ML□-□□□	2.2 $\pm$ 20%	25	1k	7.960M	90.0	0.027	3.10
SS10053R0ML□-□□□	3.0 $\pm$ 20%	25	1k	7.960M	80.0	0.030	2.90
SS10054R7ML□-□□□	4.7 $\pm$ 20%	25	1k	7.960M	50.0	0.040	2.50
SS10057R0ML□-□□□	7.0 $\pm$ 20%	22	1k	7.960M	32.0	0.055	2.20
SS1005100ML□-□□□	10.0 $\pm$ 20%	48	1k	2.520M	30.0	0.065	2.00
SS1005120ML□-□□□	12.0 $\pm$ 20%	45	1k	2.520M	25.0	0.080	1.80
SS1005150ML□-□□□	15.0 $\pm$ 20%	40	1k	2.520M	20.0	0.085	1.70
SS1005180YL□-□□□	18.0 $\pm$ 15%	35	1k	2.520M	19.0	0.090	1.60
SS1005220YL□-□□□	22.0 $\pm$ 15%	42	1k	2.520M	18.0	0.100	1.40
SS1005270YL□-□□□	27.0 $\pm$ 15%	40	1k	2.520M	17.0	0.120	1.30
SS1005330YL□-□□□	33.0 $\pm$ 15%	40	1k	2.520M	15.0	0.160	1.20
SS1005390YL□-□□□	39.0 $\pm$ 15%	40	1k	2.520M	13.0	0.180	1.05
SS1005470YL□-□□□	47.0 $\pm$ 15%	35	1k	2.520M	12.0	0.190	1.00
SS1005560YL□-□□□	56.0 $\pm$ 15%	35	1k	2.520M	11.0	0.210	0.90
SS1005680YL□-□□□	68.0 $\pm$ 15%	35	1k	2.520M	9.0	0.340	0.82
SS1005820YL□-□□□	82.0 $\pm$ 15%	35	1k	2.520M	8.0	0.380	0.75
SS1005101KL□-□□□	100.0 $\pm$ 10%	35	1k	0.796M	7.5	0.420	0.68
SS1005121KL□-□□□	120.0 $\pm$ 10%	30	1k	0.796M	7.2	0.460	0.60
SS1005151KL□-□□□	150.0 $\pm$ 10%	28	1k	0.796M	6.2	0.520	0.55
SS1005181KL□-□□□	180.0 $\pm$ 10%	28	1k	0.796M	5.8	0.700	0.50
SS1005221KL□-□□□	220.0 $\pm$ 10%	30	1k	0.796M	5.2	0.800	0.45
SS1005271KL□-□□□	270.0 $\pm$ 10%	30	1k	0.796M	4.8	1.100	0.40
SS1005331KL□-□□□	330.0 $\pm$ 10%	30	1k	0.796M	4.5	1.200	0.35
SS1005391KL□-□□□	390.0 $\pm$ 10%	25	1k	0.796M	4.2	1.400	0.33
SS1005471KL□-□□□	470.0 $\pm$ 10%	40	1k	0.796M	3.0	1.600	0.30
SS1005561KL□-□□□	560.0 $\pm$ 10%	40	1k	0.796M	2.7	1.800	0.28
SS1005681KL□-□□□	680.0 $\pm$ 10%	37	1k	0.796M	2.6	2.300	0.26
SS1005821KL□-□□□	820.0 $\pm$ 10%	37	1k	0.796M	2.5	2.600	0.24
SS1005102KL□-□□□	1000.0 $\pm$ 10%	65	1k	0.252M	2.0	3.200	0.22
SS1005122KL□-□□□	1200.0 $\pm$ 10%	58	1k	0.252M	2.0	3.600	0.20
SS1005152KL□-□□□	1500.0 $\pm$ 10%	53	1k	0.252M	1.6	5.200	0.17
SS1005182KL□-□□□	1800.0 $\pm$ 10%	65	1k	0.252M	1.4	5.700	0.16
SS1005222KL□-□□□	2200.0 $\pm$ 10%	55	1k	0.252M	1.4	6.500	0.14
SS1005272KL□-□□□	2700.0 $\pm$ 10%	55	1k	0.252M	1.2	8.600	0.12
SS1005332KL□-□□□	3300.0 $\pm$ 10%	50	1k	0.252M	1.2	10.000	0.10

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. Inductance Test Freq. at 1kHz / 1V

5. IDC base on Temp. rise 40°C max. & Δ L/L0A=10% max.

SS1003/1005/1806-L Series

■ SS1806-L Series

DWG. No.	Inductance (μH)	Q ref.	Test Freq. (Hz)	SRF (MHz) typ.	RDC (Ω) max.	I _{rms} (A) typ.	I _{sat} (A) typ.
SS1806100ML □-□□□	10.0±20%	56	2.52M	19.0	0.040	4.00	8.2
SS1806150ML □-□□□	15.0±20%	53	2.52M	17.5	0.052	3.60	7.2
SS1806220ML □-□□□	22.0±20%	51	2.52M	16.0	0.070	3.00	6.2
SS1806330ML □-□□□	33.0±20%	44	2.52M	10.0	0.100	2.50	5.0
SS1806470ML □-□□□	47.0±20%	40	2.52M	8.0	0.130	2.00	4.2
SS1806680ML □-□□□	68.0±20%	37	2.52M	6.0	0.200	1.60	3.4
SS1806101ML □-□□□	100.0±20%	40	0.796M	4.6	0.320	1.30	2.6
SS1806151ML □-□□□	150.0±20%	39	0.796M	4.3	0.500	1.05	2.3
SS1806221ML □-□□□	220.0±20%	29	0.796M	3.5	0.600	1.00	1.9
SS1806331ML □-□□□	330.0±20%	30	0.796M	3.0	0.920	0.80	1.4
SS1806471ML □-□□□	470.0±20%	27	0.796M	2.4	1.150	0.64	1.3
SS1806681ML □-□□□	680.0±20%	19	0.796M	2.1	1.700	0.54	1.1
SS1806102ML □-□□□	1000.0±20%	46	0.252M	1.5	2.450	0.45	0.9

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. Inductance test condition 100kHz / 0.1V

5. I_{rms} base on ΔT=40°C typ.

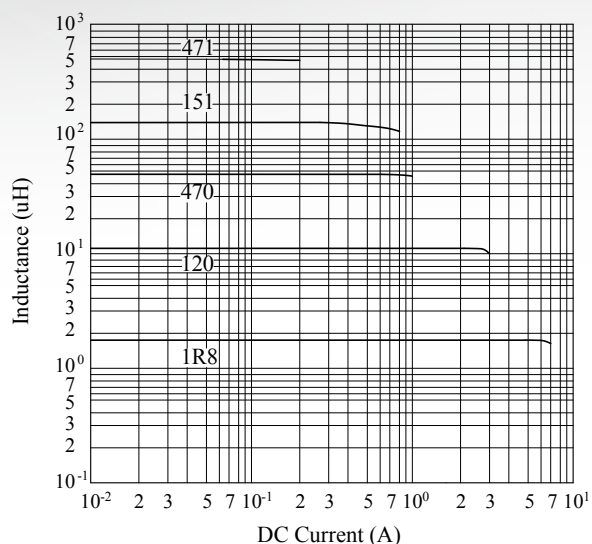
6. I_{sat} base on ΔL/L0A=10% typ.

SS1003/1005/1806-L Series

CURVE

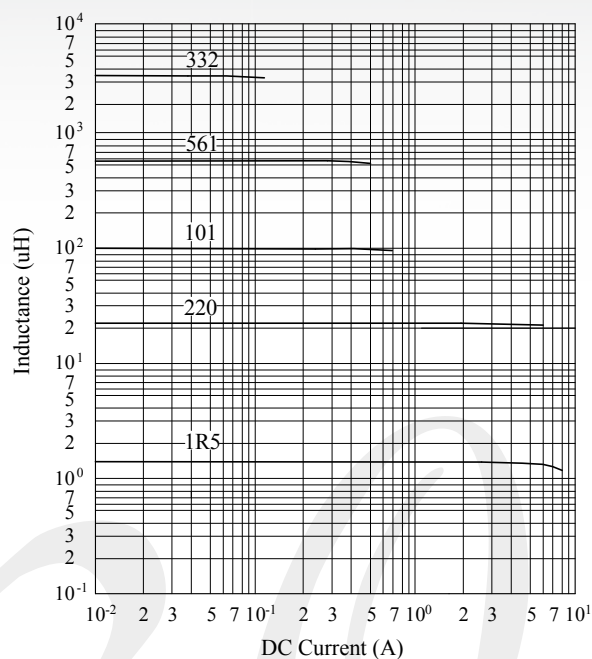
■ SS1003-L Series

@ Inductance VS. DC Current Curve



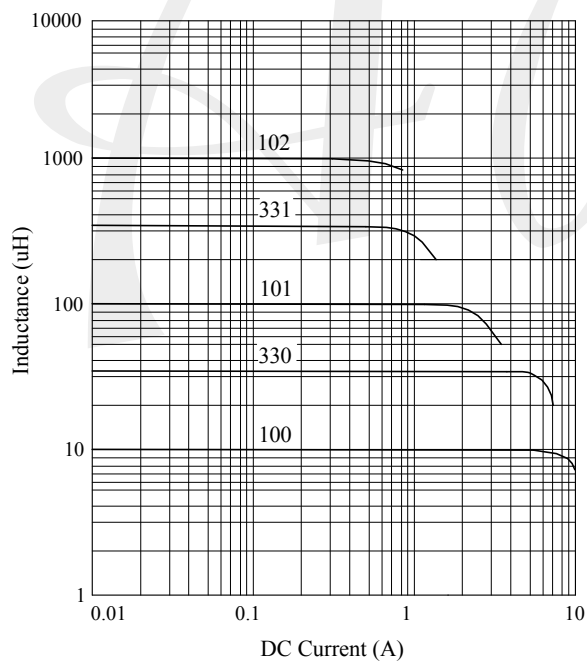
■ SS1005-L Series

@ Inductance VS. DC Current Curve



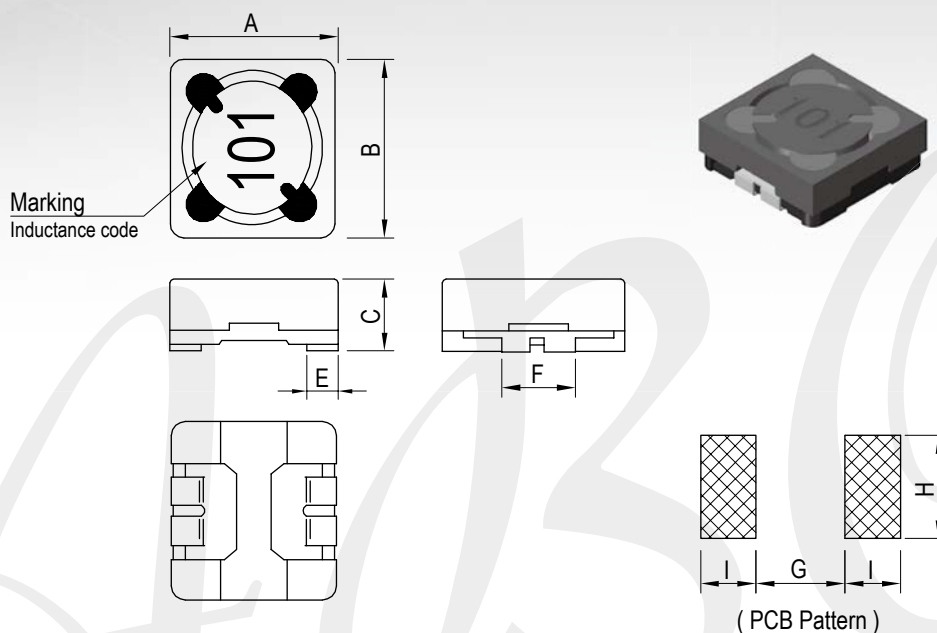
■ SS1806-L Series

@ Inductance VS. DC Current Curve



SS1205/1206/1208-P Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	E	F	G	H	I
SS1205-P	12.70±0.30	12.70±0.30	5.00±0.50	2.30±0.20	5.00±0.20	6.00 ref.	7.00 ref.	4.00 ref.
SS1206-P	12.70±0.30	12.70±0.30	6.00±0.50	2.30±0.20	5.00±0.20	6.00 ref.	7.00 ref.	4.00 ref.
SS1208-P	12.70±0.30	12.70±0.30	8.00±0.50	2.30±0.20	5.00±0.20	6.00 ref.	7.00 ref.	4.00 ref.

DESCRIPTION

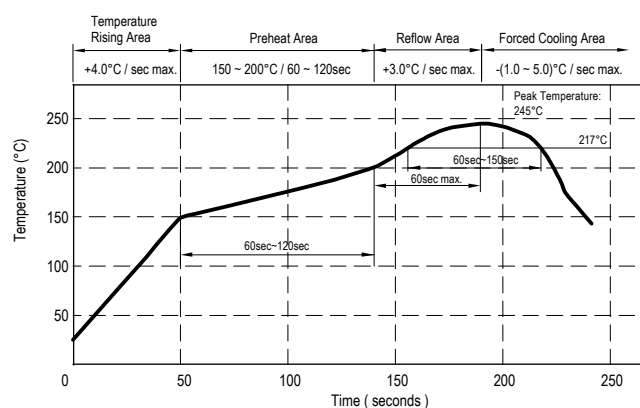
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F class
- Product weight: 2.53 (1205) / 3.40 (1206) / 4.25 (1208)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 245°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Engineering plastic substrate base with tinned copper terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.



SS1205/1206/1208-P Series

ELECTRICAL CHARACTERISTICS

■ SS1205-P Series

DWG. No.	Inductance (μH)	Test Freq. (Hz)	RDC (mΩ) max.	IDC (A) max.
SS12052R5MP□-□□□	2.5±20%	1k	24	5.00
SS12055R0MP□-□□□	5.0±20%	1k	35	4.00
SS12057R5MP□-□□□	7.5±20%	1k	40	3.50
SS1205100MP□-□□□	10.0±20%	1k	54	3.00
SS1205120MP□-□□□	12.0±20%	1k	65	2.80
SS1205150MP□-□□□	15.0±20%	1k	70	2.70
SS1205180MP□-□□□	18.0±20%	1k	82	2.60
SS1205220MP□-□□□	22.0±20%	1k	95	2.40
SS1205250MP□-□□□	25.0±20%	1k	120	2.00
SS1205330MP□-□□□	33.0±20%	1k	145	1.80
SS1205390MP□-□□□	39.0±20%	1k	160	1.65
SS1205500YP□-□□□	50.0±15%	1k	200	1.50
SS1205560YP□-□□□	56.0±15%	1k	240	1.40
SS1205680YP□-□□□	68.0±15%	1k	280	1.30
SS1205750YP□-□□□	75.0±15%	1k	330	1.20
SS1205101KP□-□□□	100.0±10%	1k	400	1.00
SS1205121KP□-□□□	120.0±10%	1k	500	0.90
SS1205151KP□-□□□	150.0±10%	1k	580	0.80
SS1205181KP□-□□□	180.0±10%	1k	750	0.70
SS1205221KP□-□□□	220.0±10%	1k	840	0.65
SS1205271KP□-□□□	270.0±10%	1k	1000	0.60
SS1205331KP□-□□□	330.0±10%	1k	1340	0.54
SS1205391KP□-□□□	390.0±10%	1k	1500	0.50
SS1205471KP□-□□□	470.0±10%	1k	1980	0.45
SS1205561KP□-□□□	560.0±10%	1k	2200	0.40
SS1205681KP□-□□□	680.0±10%	1k	2400	0.35
SS1205821KP□-□□□	820.0±10%	1k	3000	0.30

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. IDC base on Temp. rise 40°C max. & ΔL/L0A=10% max.

SS1205/1206/1208-P Series

■ SS1206-P Series

DWG. No.	Inductance (μ H)	Test Freq. (Hz)	RDC (m Ω) max.	IDC (A) max.
SS12062R5MP□-□□□	2.5 $\pm$ 20%	1k	16	6.20
SS12065R0MP□-□□□	5.0 $\pm$ 20%	1k	22	4.70
SS12067R5MP□-□□□	7.5 $\pm$ 20%	1k	25	3.80
SS1206100MP□-□□□	10.0 $\pm$ 20%	1k	35	3.30
SS1206120MP□-□□□	12.0 $\pm$ 20%	1k	38	3.00
SS1206150MP□-□□□	15.0 $\pm$ 20%	1k	42	2.80
SS1206180MP□-□□□	18.0 $\pm$ 20%	1k	50	2.50
SS1206220MP□-□□□	22.0 $\pm$ 20%	1k	62	2.30
SS1206270MP□-□□□	27.0 $\pm$ 20%	1k	68	2.00
SS1206330YP□-□□□	33.0 $\pm$ 15%	1k	90	1.90
SS1206390YP□-□□□	39.0 $\pm$ 15%	1k	100	1.75
SS1206470YP□-□□□	47.0 $\pm$ 15%	1k	130	1.60
SS1206560YP□-□□□	56.0 $\pm$ 15%	1k	155	1.45
SS1206680YP□-□□□	68.0 $\pm$ 15%	1k	170	1.30
SS1206820YP□-□□□	82.0 $\pm$ 15%	1k	185	1.20
SS1206101YP□-□□□	100.0 $\pm$ 15%	1k	220	1.10
SS1206121YP□-□□□	120.0 $\pm$ 15%	1k	260	1.00
SS1206151KP□-□□□	150.0 $\pm$ 10%	1k	320	0.90
SS1206181KP□-□□□	180.0 $\pm$ 10%	1k	380	0.80
SS1206221KP□-□□□	220.0 $\pm$ 10%	1k	460	0.70
SS1206271KP□-□□□	270.0 $\pm$ 10%	1k	520	0.65
SS1206331KP□-□□□	330.0 $\pm$ 10%	1k	660	0.60
SS1206391KP□-□□□	390.0 $\pm$ 10%	1k	870	0.55
SS1206471KP□-□□□	470.0 $\pm$ 10%	1k	970	0.50
SS1206561KP□-□□□	560.0 $\pm$ 10%	1k	1320	0.45
SS1206681KP□-□□□	680.0 $\pm$ 10%	1k	1500	0.40
SS1206821KP□-□□□	820.0 $\pm$ 10%	1k	1700	0.35
SS1206102KP□-□□□	1000.0 $\pm$ 10%	1k	2300	0.30
SS1206122KP□-□□□	1200.0 $\pm$ 10%	1k	2650	0.25
SS1206152KP□-□□□	1500.0 $\pm$ 10%	1k	3500	0.20

1. □ : Packaging information: □ Code
2. "-□□□": Reference code
3. Electrical specifications at 25°C

4. IDC base on Temp. rise 40°C max. & Δ L/L0A=10% max.

SS1205/1206/1208-P Series

■ SS1208-P Series

DWG. No.	Inductance (μ H)	Test Freq. (Hz)	SRF (MHz) min.	RDC (m Ω) max.	IDC (A) max.
SS12082R5MP□-□□□	2.5 $\pm$ 20%	1k	37.0	11.4	7.80
SS12084R5MP□-□□□	4.5 $\pm$ 20%	1k	30.0	14.0	6.80
SS12086R5MP□-□□□	6.5 $\pm$ 20%	1k	20.0	18.0	6.50
SS1208100MP□-□□□	10.0 $\pm$ 20%	1k	15.0	21.0	5.40
SS1208120MP□-□□□	12.0 $\pm$ 20%	1k	11.0	25.0	4.90
SS1208150MP□-□□□	15.0 $\pm$ 20%	1k	11.0	36.0	4.50
SS1208180MP□-□□□	18.0 $\pm$ 20%	1k	9.0	40.0	3.90
SS1208220MP□-□□□	22.0 $\pm$ 20%	1k	7.0	43.0	3.60
SS1208270MP□-□□□	27.0 $\pm$ 20%	1k	6.5	48.0	3.40
SS1208330YP□-□□□	33.0 $\pm$ 15%	1k	6.5	62.0	3.00
SS1208390YP□-□□□	39.0 $\pm$ 15%	1k	6.0	76.0	2.70
SS1208470YP□-□□□	47.0 $\pm$ 15%	1k	5.0	85.0	2.50
SS1208560YP□-□□□	56.0 $\pm$ 15%	1k	5.0	110.0	2.30
SS1208680YP□-□□□	68.0 $\pm$ 15%	1k	5.0	135.0	2.10
SS1208820YP□-□□□	82.0 $\pm$ 15%	1k	4.0	150.0	1.90
SS1208101YP□-□□□	100.0 $\pm$ 15%	1k	4.0	170.0	1.70
SS1208121YP□-□□□	120.0 $\pm$ 15%	1k	3.0	190.0	1.50
SS1208151YP□-□□□	150.0 $\pm$ 15%	1k	3.0	240.0	1.40
SS1208181YP□-□□□	180.0 $\pm$ 15%	1k	2.5	270.0	1.30
SS1208221KP□-□□□	220.0 $\pm$ 10%	1k	2.5	380.0	1.10
SS1208271KP□-□□□	270.0 $\pm$ 10%	1k	2.0	400.0	1.00
SS1208331KP□-□□□	330.0 $\pm$ 10%	1k	1.8	650.0	0.90
SS1208391KP□-□□□	390.0 $\pm$ 10%	1k	1.6	670.0	0.85
SS1208471KP□-□□□	470.0 $\pm$ 10%	1k	1.4	850.0	0.80
SS1208561KP□-□□□	560.0 $\pm$ 10%	1k	1.4	900.0	0.70
SS1208681KP□-□□□	680.0 $\pm$ 10%	1k	1.2	1000.0	0.65
SS1208821KP□-□□□	820.0 $\pm$ 10%	1k	1.2	1150.0	0.60
SS1208102KP□-□□□	1000.0 $\pm$ 10%	1k	1.0	1650.0	0.55
SS1208122KP□-□□□	1200.0 $\pm$ 10%	1k	0.8	2000.0	0.40
SS1208152KP□-□□□	1500.0 $\pm$ 10%	1k	0.8	2350.0	0.36

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

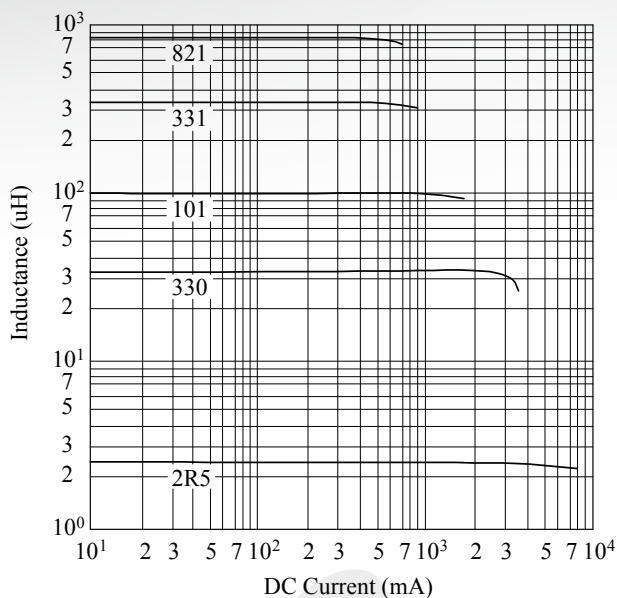
4. IDC base on Temp. rise 40°C max. & Δ L/L0A=10% max.

SS1205/1206/1208-P Series

CURVE

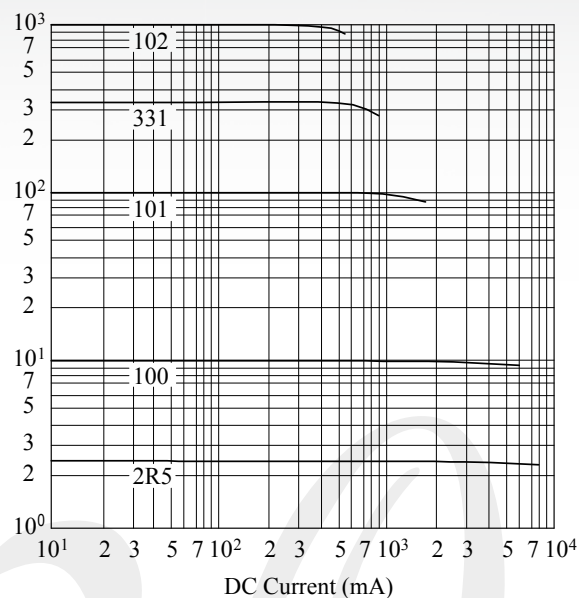
■ SS1205-P Series

@ Inductance VS. DC Current Curve



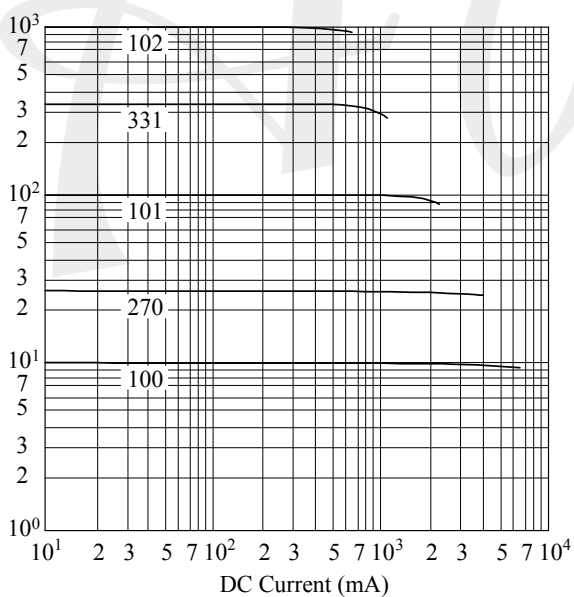
■ SS1206-P Series

@ Inductance VS. DC Current Curve



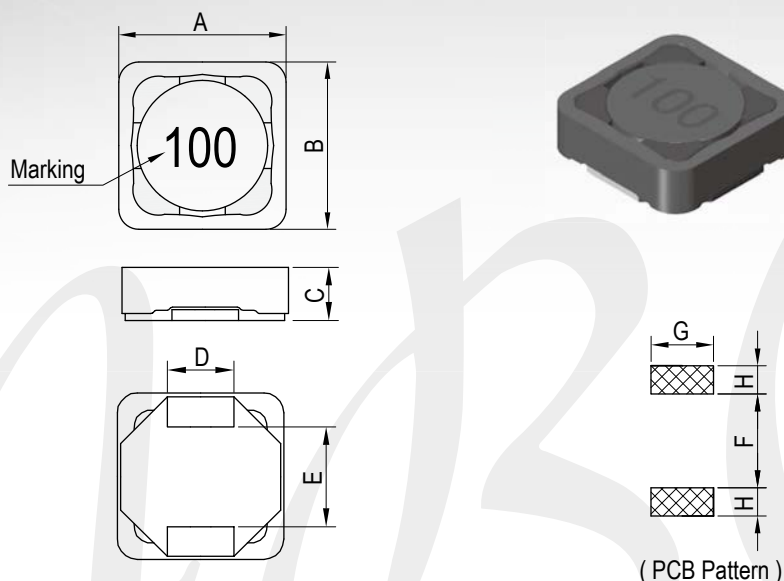
■ SS1208-P Series

@ Inductance VS. DC Current Curve



SS1240/1260/1280 Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H
SS1240-L	12.50±0.30	12.50±0.30	4.00±0.50	5.00±0.30	7.00 typ.	6.80 ref.	5.40 ref.	2.90 ref.
SS1260-F	12.50±0.30	12.50±0.30	6.00±0.50	5.00±0.30	7.00 typ.	6.80 ref.	5.40 ref.	2.90 ref.
SS1280-F	12.50±0.30	12.50±0.30	7.50±0.50	5.00±0.30	7.00 typ.	6.80 ref.	5.40 ref.	2.90 ref.

DESCRIPTION

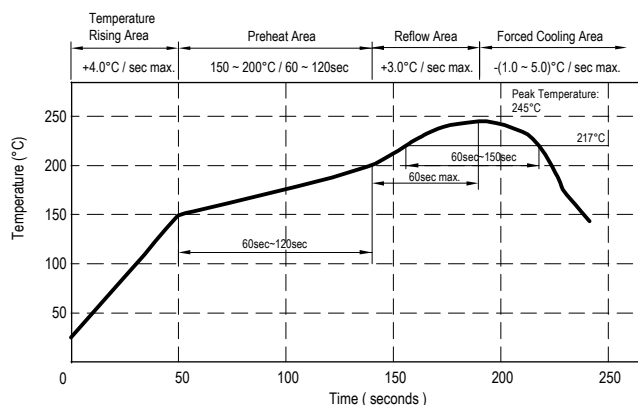
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F class
- Product weight: 2.35 (1240) / 3.65 (1260) / 4.60 (1280)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 245°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Engineering plastic substrate base with tinned copper terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.



SS1240/1260/1280 Series

ELECTRICAL CHARACTERISTICS

■ SS1240-L Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC ($m\Omega$) max.	I _{rms} (A) typ.	I _{sat} (A) typ.
SS12401R0YL□-□□□	1.0 $\pm$ 30%	10	7.96	85.0	7.0	9.30	9.20
SS12401R5YL□-□□□	1.5 $\pm$ 30%	16	7.96	80.0	9.5	9.20	9.00
SS12402R4YL□-□□□	2.4 $\pm$ 30%	10	7.96	54.0	11.5	8.00	7.80
SS12403R3YL□-□□□	3.3 $\pm$ 30%	14	7.96	43.0	15.0	6.80	6.50
SS12404R7ML□-□□□	4.7 $\pm$ 20%	16	7.96	33.0	18.0	6.00	5.60
SS12405R6ML□-□□□	5.6 $\pm$ 20%	14	7.96	35.0	20.0	5.40	5.10
SS12406R8ML□-□□□	6.8 $\pm$ 20%	14	7.96	34.0	23.0	5.20	4.70
SS12408R2ML□-□□□	8.2 $\pm$ 20%	10	7.96	32.0	27.0	4.50	4.30
SS1240100ML□-□□□	10.0 $\pm$ 20%	17	2.52	27.0	32.0	4.00	4.00
SS1240120ML□-□□□	12.0 $\pm$ 20%	16	2.52	25.0	38.0	3.80	3.60
SS1240150ML□-□□□	15.0 $\pm$ 20%	16	2.52	22.0	47.0	3.50	3.20
SS1240180ML□-□□□	18.0 $\pm$ 20%	14	2.52	20.0	55.0	3.20	3.00
SS1240220ML□-□□□	22.0 $\pm$ 20%	18	2.52	16.0	67.5	3.00	2.60
SS1240270ML□-□□□	27.0 $\pm$ 20%	16	2.52	15.5	85.0	2.55	2.35
SS1240330ML□-□□□	33.0 $\pm$ 20%	19	2.52	15.0	97.0	2.30	2.10
SS1240390ML□-□□□	39.0 $\pm$ 20%	14	2.52	14.0	120.0	2.15	2.00
SS1240470ML□-□□□	47.0 $\pm$ 20%	19	2.52	13.0	135.0	2.00	1.80
SS1240560ML□-□□□	56.0 $\pm$ 20%	16	2.52	12.0	170.0	1.80	1.65
SS1240680ML□-□□□	68.0 $\pm$ 20%	19	2.52	11.0	200.0	1.50	1.50
SS1240820ML□-□□□	82.0 $\pm$ 20%	16	2.52	10.0	250.0	1.35	1.35
SS1240101ML□-□□□	100.0 $\pm$ 20%	14	0.796	8.0	300.0	1.25	1.20
SS1240121KL□-□□□	120.0 $\pm$ 10%	12	0.796	7.8	370.0	1.20	1.15
SS1240151KL□-□□□	150.0 $\pm$ 10%	12	0.796	7.5	440.0	1.10	1.05
SS1240181KL□-□□□	180.0 $\pm$ 10%	12	0.796	7.0	550.0	0.98	0.95
SS1240221KL□-□□□	220.0 $\pm$ 10%	12	0.796	6.6	600.0	0.92	0.90
SS1240271KL□-□□□	270.0 $\pm$ 10%	10	0.796	6.0	780.0	0.80	0.80
SS1240331KL□-□□□	330.0 $\pm$ 10%	12	0.796	5.5	950.0	0.75	0.75
SS1240391KL□-□□□	390.0 $\pm$ 10%	12	0.796	5.0	1150.0	0.70	0.65
SS1240471KL□-□□□	470.0 $\pm$ 10%	12	0.796	4.5	1350.0	0.62	0.60
SS1240561KL□-□□□	560.0 $\pm$ 10%	12	0.796	4.0	1500.0	0.55	0.52
SS1240681KL□-□□□	680.0 $\pm$ 10%	14	0.796	3.8	2000.0	0.50	0.48
SS1240821KL□-□□□	820.0 $\pm$ 10%	10	0.796	3.5	2400.0	0.45	0.42
SS1240102KL□-□□□	1000.0 $\pm$ 10%	16	0.252	2.8	3000.0	0.42	0.40

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. Inductance Test Freq.: 100kHz / 0.1V

5. I_{rms} base on Temp. rise 40°C typ.

6. I_{sat} base on $\Delta L/L_0A=25\%$ typ.

SS1240/1260/1280 Series

■ SS1260-F Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC ($m\Omega$) max.	I _{rms} (A) typ.	I _{sat} (A) typ.
SS12601R0YF□-□□□	1.0±30%	26	7.96	100.00	7.8	9.40	10.00
SS12601R2YF□-□□□	1.2±30%	18	7.96	91.10	8.0	9.20	9.80
SS12601R5YF□-□□□	1.5±30%	24	7.96	86.00	9.5	8.80	9.00
SS12602R2YF□-□□□	2.2±30%	22	7.96	70.00	10.5	8.20	8.50
SS12602R4YF□-□□□	2.4±30%	18	7.96	63.80	11.5	7.80	8.00
SS12603R3YF□-□□□	3.3±30%	20	7.96	40.00	12.0	7.60	7.80
SS12603R5YF□-□□□	3.5±30%	22	7.96	37.60	13.0	7.50	7.60
SS12604R7YF□-□□□	4.7±30%	19	7.96	36.70	15.5	6.80	7.00
SS12605R6YF□-□□□	5.6±30%	19	7.96	33.00	16.2	6.70	6.90
SS12606R1YF□-□□□	6.1±30%	21	7.96	29.80	17.0	6.60	6.80
SS12606R8YF□-□□□	6.8±30%	20	7.96	28.20	18.0	6.30	6.50
SS12607R6YF□-□□□	7.6±30%	16	7.96	27.90	19.0	6.00	6.20
SS12608R2YF□-□□□	8.2±30%	18	7.96	24.00	19.5	5.70	5.80
SS1260100MF□-□□□	10.0±20%	32	2.52	21.00	20.0	5.50	5.50
SS1260120MF□-□□□	12.0±20%	27	2.52	19.40	23.0	5.20	5.00
SS1260150MF□-□□□	15.0±20%	25	2.52	17.60	27.0	5.00	4.60
SS1260180MF□-□□□	18.0±20%	28	2.52	15.50	36.0	4.20	3.90
SS1260220MF□-□□□	22.0±20%	29	2.52	13.40	43.0	4.00	3.70
SS1260270MF□-□□□	27.0±20%	26	2.52	12.70	45.0	3.60	3.30
SS1260330MF□-□□□	33.0±20%	27	2.52	9.97	60.0	3.00	2.80
SS1260390MF□-□□□	39.0±20%	22	2.52	10.40	70.0	2.80	2.70
SS1260470MF□-□□□	47.0±20%	22	2.52	7.63	86.0	2.60	2.50
SS1260560MF□-□□□	56.0±20%	24	2.52	7.92	100.0	2.30	2.20
SS1260680MF□-□□□	68.0±20%	22	2.52	7.43	110.0	2.10	2.10
SS1260820MF□-□□□	82.0±20%	25	2.52	6.85	145.0	1.95	1.90
SS1260101MF□-□□□	100.0±20%	26	0.796	6.07	180.0	1.70	1.70
SS1260121KF□-□□□	120.0±10%	26	0.796	5.50	210.0	1.65	1.65
SS1260151KF□-□□□	150.0±10%	20	0.796	5.00	260.0	1.55	1.55
SS1260181KF□-□□□	180.0±10%	26	0.796	4.50	320.0	1.40	1.40
SS1260221KF□-□□□	220.0±10%	22	0.796	4.20	380.0	1.38	1.30
SS1260271KF□-□□□	270.0±10%	20	0.796	3.60	450.0	1.30	1.20
SS1260331KF□-□□□	330.0±10%	22	0.796	3.20	580.0	1.15	1.10
SS1260391KF□-□□□	390.0±10%	20	0.796	2.80	700.0	1.08	1.00
SS1260471KF□-□□□	470.0±10%	18	0.796	2.60	820.0	0.95	0.90
SS1260561KF□-□□□	560.0±10%	22	0.796	2.40	1000.0	0.88	0.80
SS1260681KF□-□□□	680.0±10%	18	0.796	2.20	1150.0	0.80	0.75
SS1260821KF□-□□□	820.0±10%	20	0.796	2.00	1500.0	0.73	0.63
SS1260102KF□-□□□	1000.0±10%	30	0.252	1.80	1700.0	0.68	0.60

- : Packaging information: □ Code
- "- □□□": Reference code
- Electrical specifications at 25°C

- L Test Freq.: 100kHz / 0.1V (1R0Y~8R2Y), 1kHz / 1V (100M~102K)
- I_{rms} base on Temp. rise 40°C typ.
- I_{sat} base on $\Delta L/L0A=25\%$ typ.

SS1240/1260/1280 Series

■ SS1280-F Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC ($m\Omega$) max.	I _{rms} (A) typ.	I _{sat} (A) typ.
SS12801R1YF□-□□□	1.1±30%	26	7.96	85.0	6.5	10.20	14.00
SS12801R4YF□-□□□	1.4±30%	24	7.96	80.0	9.8	9.80	12.00
SS12802R4YF□-□□□	2.4±30%	20	7.96	45.0	10.0	9.20	10.50
SS12803R3YF□-□□□	3.3±30%	20	7.96	40.0	12.0	8.80	9.80
SS12804R5YF□-□□□	4.5±30%	20	7.96	34.0	13.5	8.50	9.00
SS12804R7YF□-□□□	4.7±30%	22	7.96	30.0	15.5	8.20	8.80
SS12805R6YF□-□□□	5.6±30%	20	7.96	24.0	16.0	8.00	8.50
SS12806R8YF□-□□□	6.8±30%	20	7.96	22.0	18.5	7.60	8.00
SS12807R5YF□-□□□	7.5±30%	16	7.96	21.0	17.5	6.40	7.00
SS12808R2YF□-□□□	8.2±30%	22	2.52	20.0	20.5	6.20	6.80
SS1280100MF□-□□□	10.0±20%	24	2.52	17.0	19.5	6.00	6.60
SS1280120MF□-□□□	12.0±20%	26	2.52	15.0	28.0	5.60	6.30
SS1280150MF□-□□□	15.0±20%	26	2.52	13.0	28.5	5.20	5.00
SS1280180MF□-□□□	18.0±20%	24	2.52	12.0	35.0	4.80	4.60
SS1280220MF□-□□□	22.0±20%	20	2.52	11.0	38.6	4.30	4.10
SS1280270MF□-□□□	27.0±20%	26	2.52	10.0	52.0	3.90	3.70
SS1280330MF□-□□□	33.0±20%	28	2.52	9.5	57.0	3.50	3.30
SS1280390MF□-□□□	39.0±20%	24	2.52	8.5	70.0	3.20	3.10
SS1280470MF□-□□□	47.0±20%	24	2.52	7.5	80.0	2.90	2.80
SS1280560MF□-□□□	56.0±20%	24	2.52	7.0	100.0	2.60	2.50
SS1280680MF□-□□□	68.0±20%	20	2.52	6.5	120.0	2.40	2.30
SS1280820MF□-□□□	82.0±20%	20	2.52	5.0	130.0	2.30	2.20
SS1280101MF□-□□□	100.0±20%	18	0.796	4.5	150.0	2.10	2.00
SS1280121KF□-□□□	120.0±10%	16	0.796	4.3	200.0	1.95	1.95
SS1280151KF□-□□□	150.0±10%	24	0.796	4.1	270.0	1.85	1.90
SS1280181KF□-□□□	180.0±10%	24	0.796	4.0	300.0	1.75	1.88
SS1280221KF□-□□□	220.0±10%	24	0.796	3.4	400.0	1.60	1.70
SS1280271KF□-□□□	270.0±10%	20	0.796	3.1	450.0	1.20	1.60
SS1280331KF□-□□□	330.0±10%	18	0.796	2.9	600.0	1.10	1.40
SS1280391KF□-□□□	390.0±10%	20	0.796	2.7	680.0	1.00	1.40
SS1280471KF□-□□□	470.0±10%	20	0.796	2.2	880.0	0.90	1.25
SS1280561KF□-□□□	560.0±10%	20	0.796	2.0	960.0	0.80	1.15
SS1280681KF□-□□□	680.0±10%	26	0.796	1.7	1300.0	0.75	0.97
SS1280821KF□-□□□	820.0±10%	20	0.796	1.4	1500.0	0.70	0.94
SS1280102KF□-□□□	1000.0±10%	40	0.252	1.3	1700.0	0.68	0.80

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

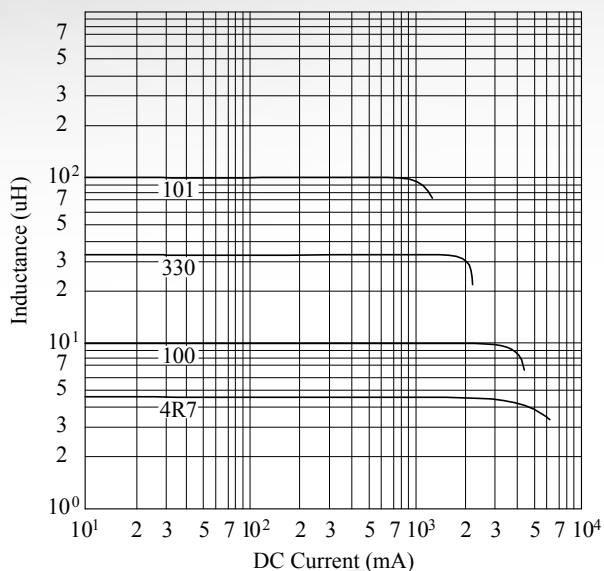
- Inductance Test Freq.: 1R1~8R2 : 100kHz / 1V, 100~102 : 1kHz / 1V
- I_{rms} base on Temp. rise 40°C typ.
- I_{sat} base on $\Delta L/L_0A=25\%$ typ.

SS1240/1260/1280 Series

CURVE

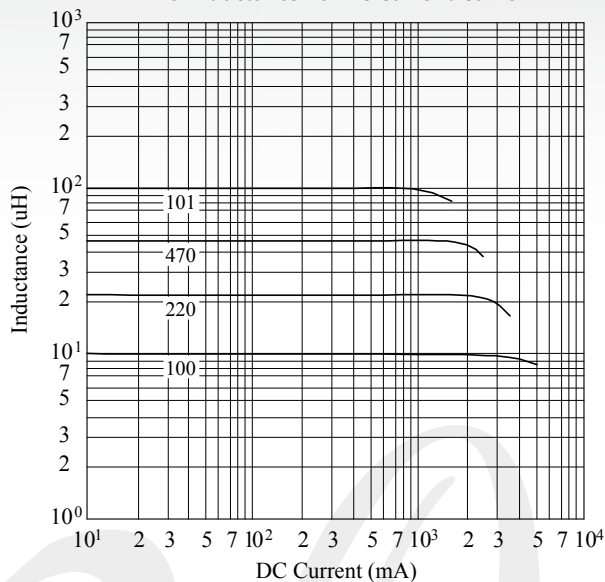
■ SS1240-L Series

@ Inductance VS. DC Current Curve



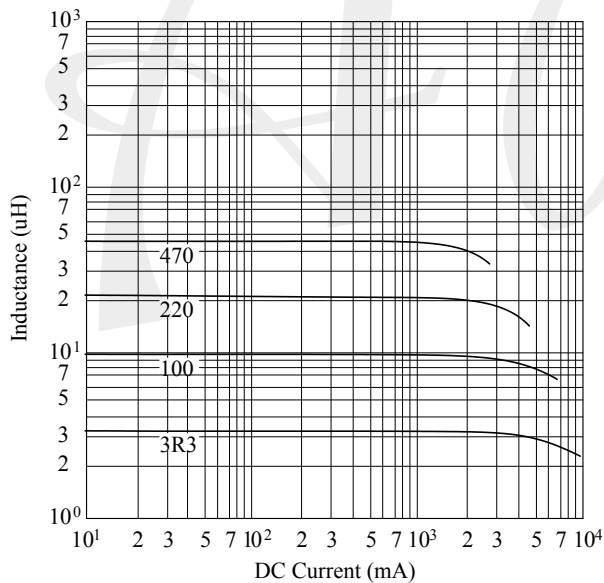
■ SS1260-F Series

@ Inductance VS. DC Current Curve



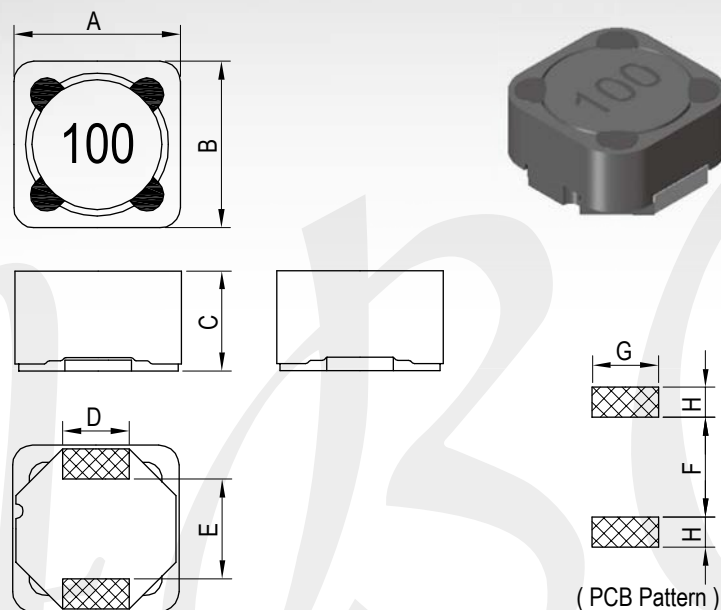
■ SS1280-F Series

@ Inductance VS. DC Current Curve



SS1258/1278-F Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H
SS1258-F	12.00±0.30	12.00±0.30	6.00±0.20	5.00 typ.	5.70 typ.	4.50 ref.	5.50 ref.	4.00 ref.
SS1278-F	12.00±0.30	12.00±0.30	8.00 max.	5.00 typ.	5.70 typ.	4.50 ref.	5.50 ref.	4.00 ref.

DESCRIPTION

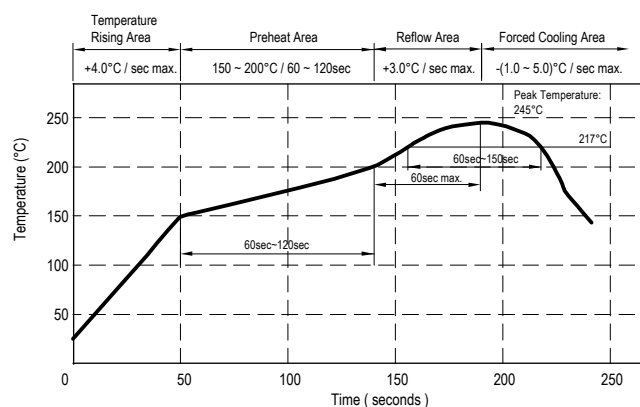
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F & H class
- Product weight: 3.10 (1258) / 4.25 (1278)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 245°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Engineering plastic substrate base with tinned copper terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.



SS1258/1278-F Series

ELECTRICAL CHARACTERISTICS

■ SS1258-F Series

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC ($m\Omega$) max.	I _{rms} (A) typ.	I _{sat} (A) max.
SS12581R0YF□-□□□	1.0 $\pm$ 35%	26	7.96	100.0	10	8.00	15.00
SS12581R8YF□-□□□	1.8 $\pm$ 35%	24	7.96	80.0	13	7.50	14.00
SS12582R2YF□-□□□	2.2 $\pm$ 35%	22	7.96	55.0	14	7.00	11.40
SS12583R3YF□-□□□	3.3 $\pm$ 35%	20	7.96	42.0	16	7.00	9.70
SS12584R7YF□-□□□	4.7 $\pm$ 35%	19	7.96	33.0	20	7.00	8.00
SS12585R6YF□-□□□	5.6 $\pm$ 35%	19	7.96	30.0	22	6.40	7.50
SS12586R8YF□-□□□	6.8 $\pm$ 35%	20	7.96	27.0	23	5.90	6.70
SS12588R2YF□-□□□	8.2 $\pm$ 35%	18	7.96	26.0	25	4.80	6.00
SS1258100MF□-□□□	10.0 $\pm$ 20%	32	2.52	22.0	28	4.00	5.50
SS1258120MF□-□□□	12.0 $\pm$ 20%	27	2.52	20.0	32	3.70	5.10
SS1258150MF□-□□□	15.0 $\pm$ 20%	25	2.52	18.0	40	3.50	4.60
SS1258180MF□-□□□	18.0 $\pm$ 20%	28	2.52	16.0	45	3.30	4.10
SS1258220MF□-□□□	22.0 $\pm$ 20%	29	2.52	15.0	52	3.10	3.70
SS1258270MF□-□□□	27.0 $\pm$ 20%	26	2.52	13.0	65	2.90	3.20
SS1258330MF□-□□□	33.0 $\pm$ 20%	27	2.52	12.4	75	2.70	3.00
SS1258390MF□-□□□	39.0 $\pm$ 20%	22	2.52	12.0	80	2.60	2.80
SS1258470MF□-□□□	47.0 $\pm$ 20%	22	2.52	11.6	100	2.50	2.60
SS1258560MF□-□□□	56.0 $\pm$ 20%	24	2.52	10.5	120	2.40	2.50
SS1258680MF□-□□□	68.0 $\pm$ 20%	22	2.52	10.0	130	2.30	2.30
SS1258820MF□-□□□	82.0 $\pm$ 20%	25	2.52	8.6	160	2.20	2.00
SS1258101MF□-□□□	100.0 $\pm$ 20%	26	0.796	7.8	190	2.10	1.80
SS1258121KF□-□□□	120.0 $\pm$ 10%	26	0.796	6.8	250	1.85	1.65
SS1258151KF□-□□□	150.0 $\pm$ 10%	20	0.796	6.4	280	1.66	1.55
SS1258181KF□-□□□	180.0 $\pm$ 10%	26	0.796	6.1	320	1.58	1.30
SS1258221KF□-□□□	220.0 $\pm$ 10%	22	0.796	5.5	420	1.35	1.20
SS1258271KF□-□□□	270.0 $\pm$ 10%	20	0.796	4.3	480	1.30	1.10
SS1258331KF□-□□□	330.0 $\pm$ 10%	22	0.796	4.0	630	1.16	1.00
SS1258391KF□-□□□	390.0 $\pm$ 10%	20	0.796	3.6	700	1.08	0.95
SS1258471KF□-□□□	470.0 $\pm$ 10%	18	0.796	3.0	900	0.96	0.85
SS1258561KF□-□□□	560.0 $\pm$ 10%	22	0.796	2.8	1000	0.88	0.80
SS1258681KF□-□□□	680.0 $\pm$ 10%	18	0.796	2.6	1200	0.80	0.75
SS1258821KF□-□□□	820.0 $\pm$ 10%	20	0.796	2.5	1600	0.73	0.68
SS1258102KF□-□□□	1000.0 $\pm$ 10%	30	0.252	2.4	1850	0.68	0.60

1. □ : Packaging information: □ Code

2. "-□□□": Reference code

3. Electrical specifications at 25°C

4. Inductance Test Freq.: 100kHz / 0.1V

5. I_{rms} base on Temp. rise 40°C typ.6. I_{sat} base on $\Delta L/L_0A=20\%$ max.

SS1258/1278-F Series

■ SS1278-F Series

DWG. No.	Inductance (μ H)	SRF (MHz) typ.	RDC ($m\Omega$) max.	I _{rms} (A) typ.	I _{sat} (A) max.
SS12781R4MF□-□□□	1.4 $\pm$ 20%	80.0	11	10.00	18.00
SS12784R7MF□-□□□	4.7 $\pm$ 20%	30.0	20	6.20	11.00
SS12786R0MF□-□□□	6.0 $\pm$ 20%	21.0	24	6.00	10.00
SS12788R2MF□-□□□	8.2 $\pm$ 20%	20.0	28	5.90	8.50
SS1278100MF□-□□□	10.0 $\pm$ 20%	17.0	30	5.70	8.00
SS1278120MF□-□□□	12.0 $\pm$ 20%	15.0	32	5.20	7.50
SS1278150MF□-□□□	15.0 $\pm$ 20%	13.0	38	4.90	6.80
SS1278180MF□-□□□	18.0 $\pm$ 20%	12.0	43	4.50	6.30
SS1278220MF□-□□□	22.0 $\pm$ 20%	11.0	50	4.00	5.70
SS1278270MF□-□□□	27.0 $\pm$ 20%	10.0	60	3.60	5.00
SS1278330MF□-□□□	33.0 $\pm$ 20%	9.5	80	3.10	4.70
SS1278390MF□-□□□	39.0 $\pm$ 20%	8.5	85	3.00	4.60
SS1278470MF□-□□□	47.0 $\pm$ 20%	7.5	100	2.90	3.80
SS1278560MF□-□□□	56.0 $\pm$ 20%	7.0	110	2.70	3.50
SS1278680MF□-□□□	68.0 $\pm$ 20%	6.5	120	2.60	3.20
SS1278820MF□-□□□	82.0 $\pm$ 20%	5.0	150	2.30	3.00
SS1278101MF□-□□□	100.0 $\pm$ 20%	4.5	180	2.00	2.60
SS1278121KF□-□□□	120.0 $\pm$ 10%	4.3	230	1.90	2.50
SS1278151KF□-□□□	150.0 $\pm$ 10%	4.1	270	1.80	2.20
SS1278181KF□-□□□	180.0 $\pm$ 10%	4.0	300	1.70	2.00
SS1278221KF□-□□□	220.0 $\pm$ 10%	3.4	400	1.60	1.80
SS1278271KF□-□□□	270.0 $\pm$ 10%	3.1	530	1.20	1.60
SS1278331KF□-□□□	330.0 $\pm$ 10%	2.9	600	1.00	1.50
SS1278391KF□-□□□	390.0 $\pm$ 10%	2.7	680	1.00	1.30
SS1278471KF□-□□□	470.0 $\pm$ 10%	2.2	880	0.90	1.20
SS1278561KF□-□□□	560.0 $\pm$ 10%	2.0	960	0.80	1.10
SS1278681KF□-□□□	680.0 $\pm$ 10%	1.7	1300	0.75	1.00
SS1278821KF□-□□□	820.0 $\pm$ 10%	1.4	1500	0.70	0.95
SS1278102KF□-□□□	1000.0 $\pm$ 10%	1.3	1700	0.68	0.85

1. □ : Packaging information: □ Code

2. "- □□□" : Reference code

3. Electrical specifications at 25°C

4. Inductance Test Freq.: 100kHz / 0.1V

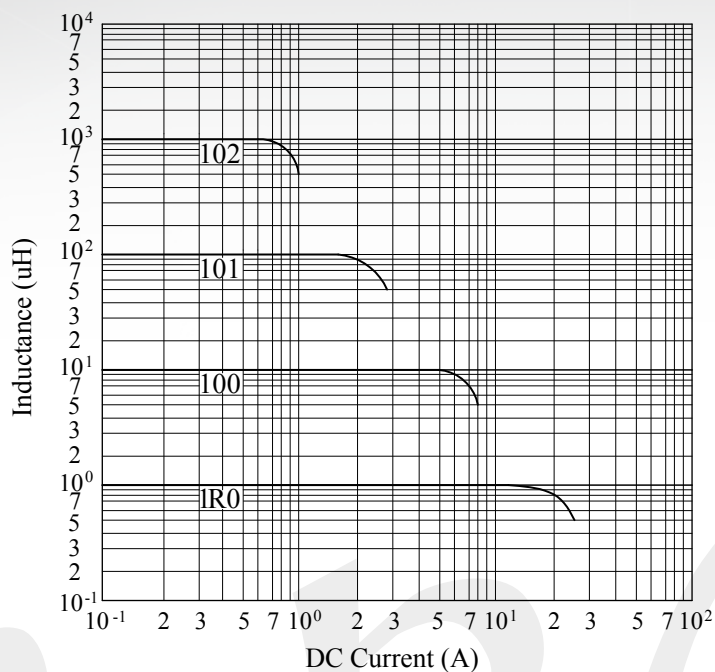
5. I_{rms} base on Temp. rise 40°C typ.6. I_{sat} base on $\Delta L/L_0A=20\%$ max.

SS1258/1278-F Series

CURVE

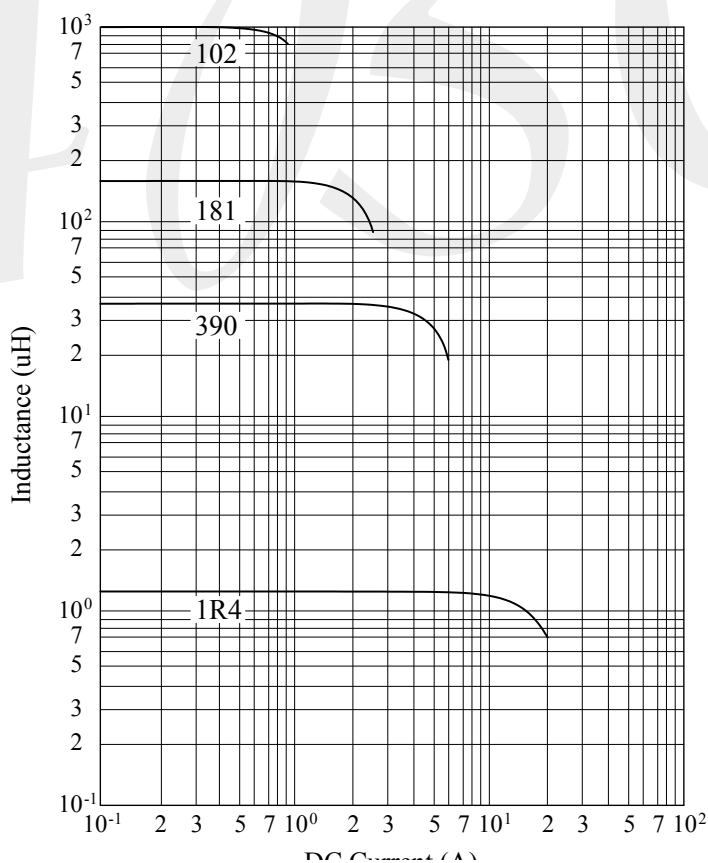
■ SS1258-F Series

@ Inductance VS. DC Current Curve



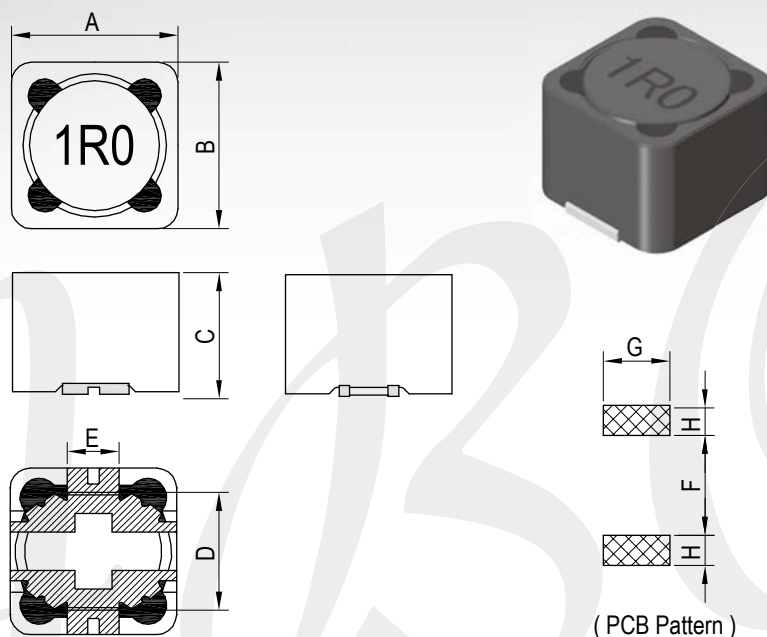
■ SS1278-F Series

@ Inductance VS. DC Current Curve



SS1210-F Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H
SS1210-F	12.00±0.50	12.00±0.50	10.00 max.	7.90 ref.	4.90 ref.	7.30 ref.	5.30 ref.	2.80 ref.

DESCRIPTION

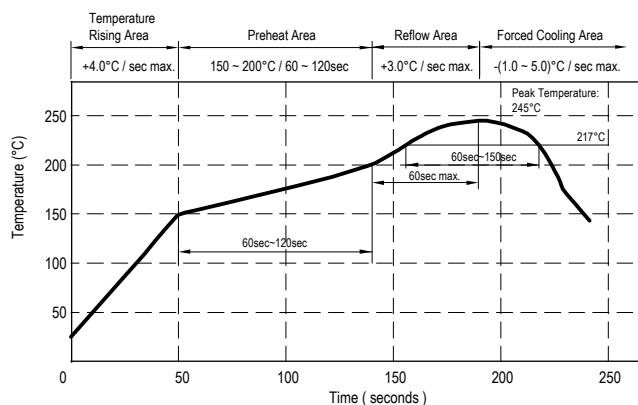
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F class
- Product weight: 4.50g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Engineering plastic substrate base with tinned copper terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 245°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



SS1210-F Series

ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC ($m\Omega$) max.	I _{rms} (A) typ.	I _{sat} (A) max.
SS12101R0YFB-□□□	1.0 $\pm$ 30%	10	7.96	85.00	6.0	11.00	16.50
SS12101R8YFB-□□□	1.8 $\pm$ 30%	10	7.96	56.00	7.5	10.20	13.20
SS12102R2YFB-□□□	2.2 $\pm$ 30%	10	7.96	54.00	9.0	9.50	12.20
SS12103R3YFB-□□□	3.3 $\pm$ 30%	15	7.96	44.00	10.0	9.00	10.50
SS12104R7YFB-□□□	4.7 $\pm$ 30%	8	7.96	35.00	12.0	8.50	9.60
SS12105R6YFB-□□□	5.6 $\pm$ 30%	12	7.96	28.00	13.5	8.00	8.50
SS12106R8YFB-□□□	6.8 $\pm$ 30%	12	7.96	20.00	15.0	7.85	8.30
SS12108R2YFB-□□□	8.2 $\pm$ 30%	11	7.96	16.00	17.0	7.25	7.55
SS1210100MFB-□□□	10.0 $\pm$ 20%	16	2.52	12.00	18.0	6.50	6.50
SS1210120MFB-□□□	12.0 $\pm$ 20%	14	2.52	18.00	22.0	6.30	6.10
SS1210150MFB-□□□	15.0 $\pm$ 20%	16	2.52	10.50	32.0	5.80	5.30
SS1210180MFB-□□□	18.0 $\pm$ 20%	13	2.52	8.00	35.0	5.50	5.10
SS1210220MFB-□□□	22.0 $\pm$ 20%	16	2.52	8.00	38.0	5.20	4.50
SS1210270MFB-□□□	27.0 $\pm$ 20%	16	2.52	6.50	40.0	5.00	4.20
SS1210330MFB-□□□	33.0 $\pm$ 20%	16	2.52	6.50	52.0	4.40	3.70
SS1210390MFB-□□□	39.0 $\pm$ 20%	16	2.52	4.50	66.0	4.20	3.50
SS1210470MFB-□□□	47.0 $\pm$ 20%	16	2.52	4.50	72.0	3.80	3.10
SS1210560MFB-□□□	56.0 $\pm$ 20%	8	2.52	4.00	90.0	3.40	2.90
SS1210680MFB-□□□	68.0 $\pm$ 20%	12	2.52	3.80	102.0	3.00	2.70
SS1210820MFB-□□□	82.0 $\pm$ 20%	15	2.52	3.50	112.0	2.80	2.50
SS1210101MFB-□□□	100.0 $\pm$ 20%	16	0.796	3.00	135.0	2.50	2.20
SS1210121MFB-□□□	120.0 $\pm$ 20%	13	0.796	2.60	170.0	2.30	1.90
SS1210151MFB-□□□	150.0 $\pm$ 20%	12	0.796	2.20	190.0	2.20	1.80
SS1210181MFB-□□□	180.0 $\pm$ 20%	14	0.796	1.80	250.0	1.90	1.60
SS1210221MFB-□□□	220.0 $\pm$ 20%	15	0.796	1.80	315.0	1.70	1.50
SS1210271MFB-□□□	270.0 $\pm$ 20%	16	0.796	1.80	410.0	1.50	1.30
SS1210331MFB-□□□	330.0 $\pm$ 20%	14	0.796	1.80	450.0	1.40	1.20
SS1210391MFB-□□□	390.0 $\pm$ 20%	16	0.796	1.30	600.0	1.30	1.10
SS1210471MFB-□□□	470.0 $\pm$ 20%	12	0.796	0.85	820.0	1.20	1.00
SS1210561MFB-□□□	560.0 $\pm$ 20%	12	0.796	0.85	900.0	1.10	0.95
SS1210681MFB-□□□	680.0 $\pm$ 20%	11	0.796	0.85	1200.0	1.00	0.85
SS1210821MFB-□□□	820.0 $\pm$ 20%	6	0.796	0.85	1320.0	0.85	0.75
SS1210102MFB-□□□	1000.0 $\pm$ 20%	22	0.796	0.85	1650.0	0.75	0.70

1. □ : Packaging information: □ Code

2. "-□□□": Reference code

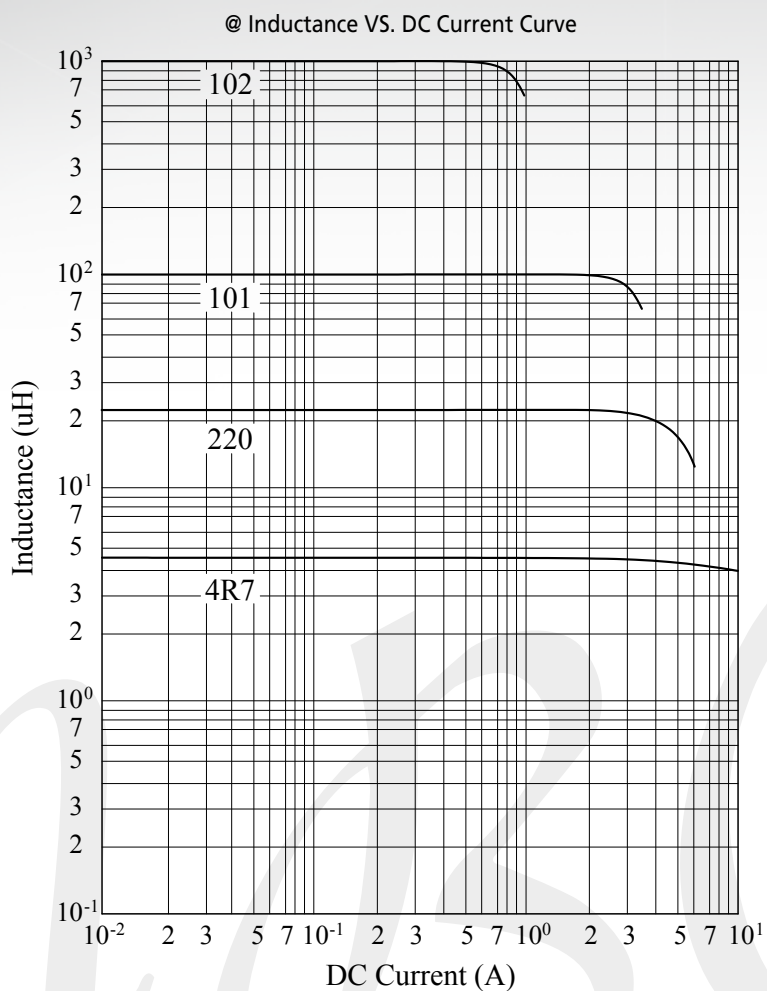
3. Electrical specifications at 25°C

4. Inductance Test Freq.: 1kHz / 0.25V

5. I_{rms} base on Temp. rise 40°C typ.6. I_{sat} base on $\Delta L/L0A=20\%$ max.

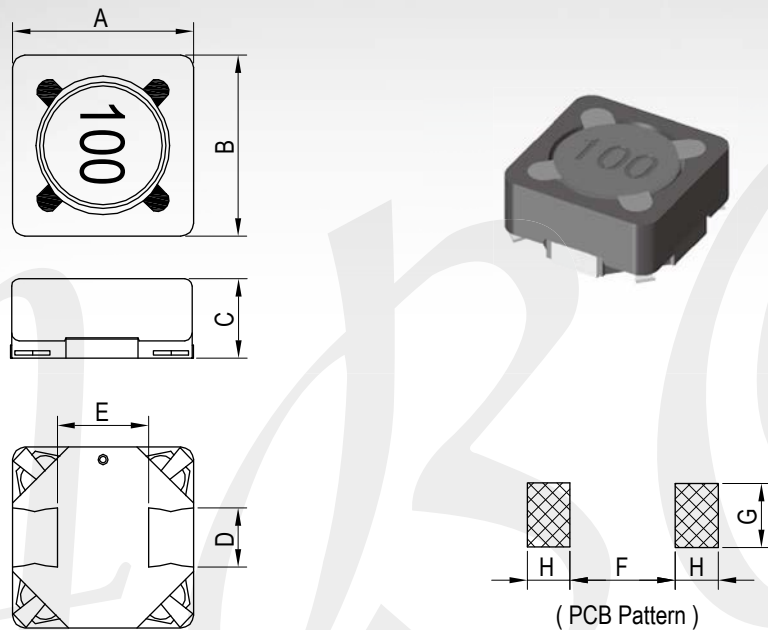
SS1210-F Series

CURVE



BS0703/0704-F Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H
BS0703-F	7.30±0.20	7.30±0.20	3.50±0.20	2.00 typ.	4.60 typ.	4.80 ref.	2.40 ref.	1.50 ref.
BS0704-F	7.30±0.20	7.30±0.20	4.50±0.20	2.00 typ.	4.60 typ.	4.80 ref.	2.40 ref.	1.50 ref.

DESCRIPTION

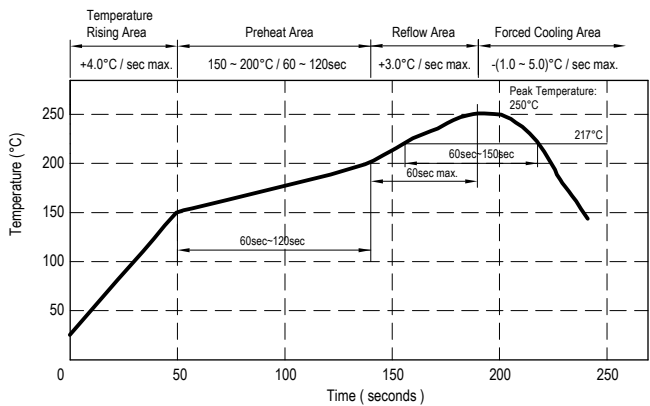
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: H class
- Product weight: 0.63 (0703) / 0.88 (0704)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Engineering plastic substrate base with tinned copper terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.



BS0703/0704-F Series

ELECTRICAL CHARACTERISTICS

■ BS0703-F Series

DWG. No.	Inductance (μ H)	Test Freq. (Hz) / 1V	RDC (Ω) max.	I _{rms} (A) max.	I _{sat} (A) max.
BS0703100MF□-□□□	10.0 $\pm$ 20%	1k	0.072	2.10	1.85
BS0703120MF□-□□□	12.0 $\pm$ 20%	1k	0.085	1.90	1.60
BS0703150MF□-□□□	15.0 $\pm$ 20%	1k	0.105	1.60	1.52
BS0703180MF□-□□□	18.0 $\pm$ 20%	1k	0.125	1.40	1.40
BS0703220MF□-□□□	22.0 $\pm$ 20%	1k	0.160	1.20	1.28
BS0703270MF□-□□□	27.0 $\pm$ 20%	1k	0.185	1.10	1.15
BS0703330MF□-□□□	33.0 $\pm$ 20%	1k	0.220	1.00	1.04
BS0703390MF□-□□□	39.0 $\pm$ 20%	1k	0.250	0.95	0.96
BS0703470MF□-□□□	47.0 $\pm$ 20%	1k	0.320	0.85	0.88
BS0703560MF□-□□□	56.0 $\pm$ 20%	1k	0.350	0.78	0.80
BS0703680MF□-□□□	68.0 $\pm$ 20%	1k	0.400	0.72	0.74
BS0703820MF□-□□□	82.0 $\pm$ 20%	1k	0.480	0.63	0.65
BS0703101MF□-□□□	100.0 $\pm$ 20%	1k	0.630	0.54	0.60
BS0703121MF□-□□□	120.0 $\pm$ 20%	1k	0.720	0.53	0.55
BS0703151MF□-□□□	150.0 $\pm$ 20%	1k	0.930	0.47	0.48
BS0703181MF□-□□□	180.0 $\pm$ 20%	1k	1.150	0.43	0.45
BS0703221MF□-□□□	220.0 $\pm$ 20%	1k	1.320	0.40	0.42
BS0703271MF□-□□□	270.0 $\pm$ 20%	1k	1.700	0.37	0.38
BS0703331MF□-□□□	330.0 $\pm$ 20%	1k	2.000	0.33	0.33
BS0703391MF□-□□□	390.0 $\pm$ 20%	1k	2.300	0.30	0.30
BS0703471MF□-□□□	470.0 $\pm$ 20%	1k	2.800	0.26	0.27
BS0703561MF□-□□□	560.0 $\pm$ 20%	1k	3.500	0.23	0.25
BS0703681MF□-□□□	680.0 $\pm$ 20%	1k	4.000	0.21	0.22
BS0703821MF□-□□□	820.0 $\pm$ 20%	1k	5.200	0.19	0.21
BS0703102MF□-□□□	1000.0 $\pm$ 20%	1k	5.800	0.17	0.18

1. □ : Packaging information: □ Code
2. "- □□□": Reference code
3. Electrical specifications at 25°C

4. Inductance Test Freq.: 1kHz / 1V
5. I_{rms} base on Temp. rise 40°C max.
6. I_{sat} base on $\Delta L/L_0$ =25% max.

BS0703/0704-F Series

■ BS0704-F Series

DWG. No.	Inductance (μ H)	Test Freq. (Hz) / 1V	RDC (Ω) max.	I _{rms} (A) max.	I _{sat} (A) max.
BS07041R0MF□-□□□	1.0 $\pm$ 20%	1k	0.013	5.00	5.60
BS07042R2MF□-□□□	2.2 $\pm$ 20%	1k	0.018	4.20	5.00
BS07043R3MF□-□□□	3.3 $\pm$ 20%	1k	0.022	3.80	4.40
BS07044R7MF□-□□□	4.7 $\pm$ 20%	1k	0.028	3.60	4.00
BS07045R6MF□-□□□	5.6 $\pm$ 20%	1k	0.032	3.00	3.40
BS07046R8MF□-□□□	6.8 $\pm$ 20%	1k	0.040	2.80	3.20
BS0704100MF□-□□□	10.0 $\pm$ 20%	1k	0.052	2.10	2.50
BS0704120MF□-□□□	12.0 $\pm$ 20%	1k	0.062	2.00	2.30
BS0704150MF□-□□□	15.0 $\pm$ 20%	1k	0.075	1.90	2.10
BS0704180MF□-□□□	18.0 $\pm$ 20%	1k	0.090	1.80	1.95
BS0704220MF□-□□□	22.0 $\pm$ 20%	1k	0.096	1.65	1.75
BS0704270MF□-□□□	27.0 $\pm$ 20%	1k	0.130	1.45	1.62
BS0704330MF□-□□□	33.0 $\pm$ 20%	1k	0.150	1.35	1.45
BS0704390MF□-□□□	39.0 $\pm$ 20%	1k	0.190	1.17	1.30
BS0704470MF□-□□□	47.0 $\pm$ 20%	1k	0.210	1.05	1.20
BS0704560MF□-□□□	56.0 $\pm$ 20%	1k	0.240	0.95	1.10
BS0704680MF□-□□□	68.0 $\pm$ 20%	1k	0.300	0.86	0.96
BS0704820MF□-□□□	82.0 $\pm$ 20%	1k	0.400	0.78	0.90
BS0704101MF□-□□□	100.0 $\pm$ 20%	1k	0.450	0.70	0.78
BS0704121MF□-□□□	120.0 $\pm$ 20%	1k	0.550	0.60	0.70
BS0704151MF□-□□□	150.0 $\pm$ 20%	1k	0.760	0.48	0.58
BS0704181MF□-□□□	180.0 $\pm$ 20%	1k	0.820	0.46	0.54
BS0704221MF□-□□□	220.0 $\pm$ 20%	1k	0.950	0.42	0.50
BS0704271MF□-□□□	270.0 $\pm$ 20%	1k	1.200	0.38	0.46
BS0704331MF□-□□□	330.0 $\pm$ 20%	1k	1.500	0.34	0.40
BS0704391MF□-□□□	390.0 $\pm$ 20%	1k	1.850	0.32	0.36
BS0704471MF□-□□□	470.0 $\pm$ 20%	1k	2.200	0.29	0.34
BS0704561MF□-□□□	560.0 $\pm$ 20%	1k	2.600	0.26	0.30
BS0704681MF□-□□□	680.0 $\pm$ 20%	1k	2.800	0.24	0.28
BS0704821MF□-□□□	820.0 $\pm$ 20%	1k	3.500	0.22	0.26
BS0704102MF□-□□□	1000.0 $\pm$ 20%	1k	4.100	0.20	0.24

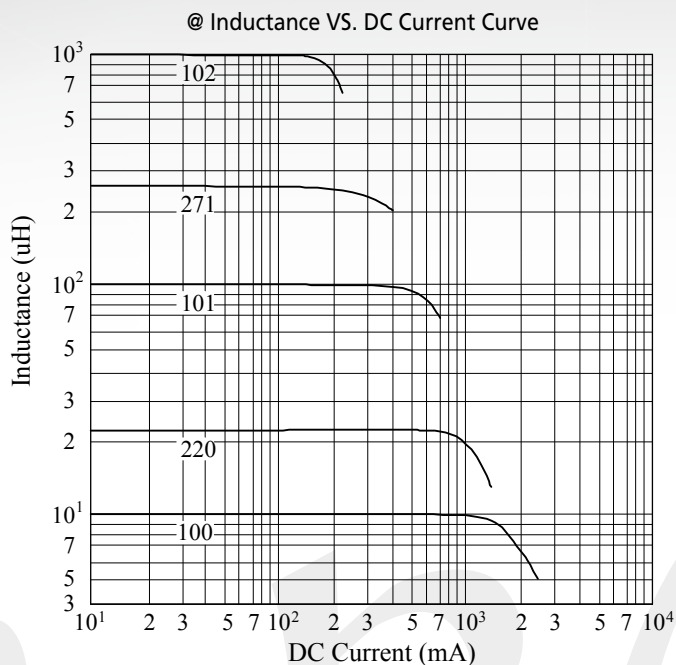
1. □ : Packaging information: □ Code
2. "-□□□": Reference code
3. Electrical specifications at 25°C

4. Inductance Test Freq.: 1kHz / 1V
5. I_{rms} base on Temp. rise 40°C max.
6. I_{sat} base on $\Delta L/L_0 A=25\%$ max.

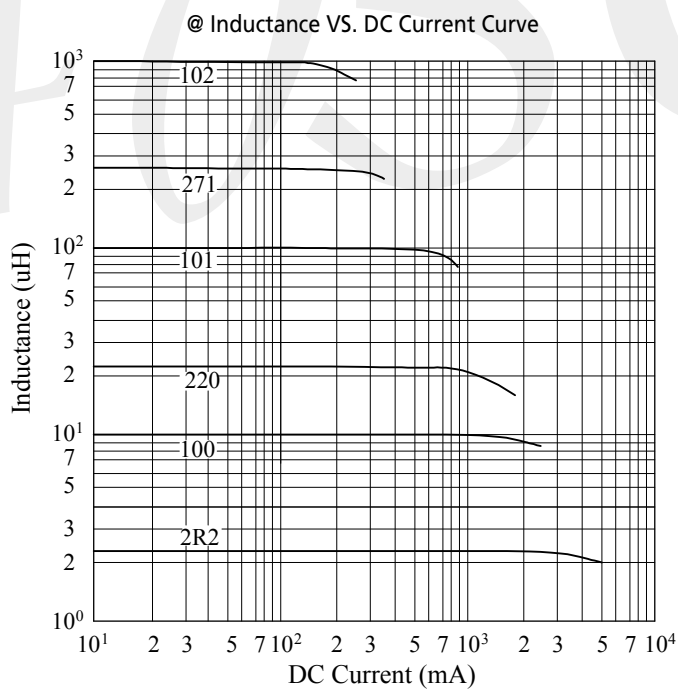
BS0703/0704-F Series

CURVE

■ BS0703-F Series

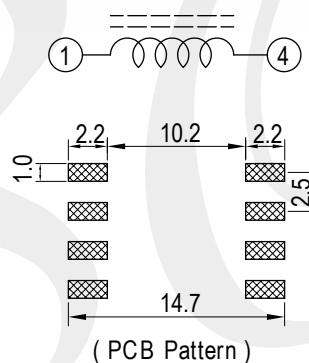
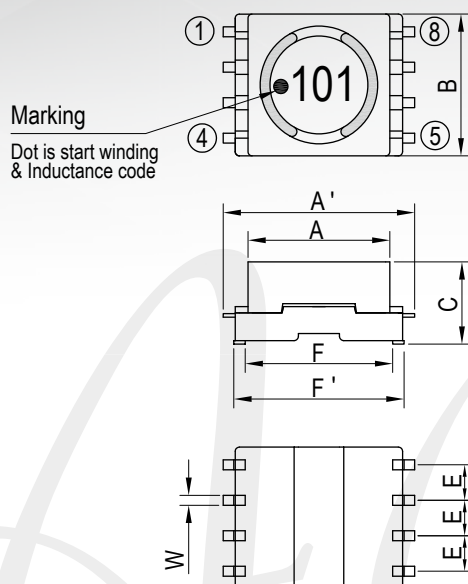


■ BS0704-F Series



BS0906-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	A'	B	C	E	F	F'	W
BS0906-L	9.90±0.2	13.50±0.3	10.50 max.	6.00±0.3	2.50±0.2	10.40±0.2	12.70±0.6	0.70 typ.

DESCRIPTION

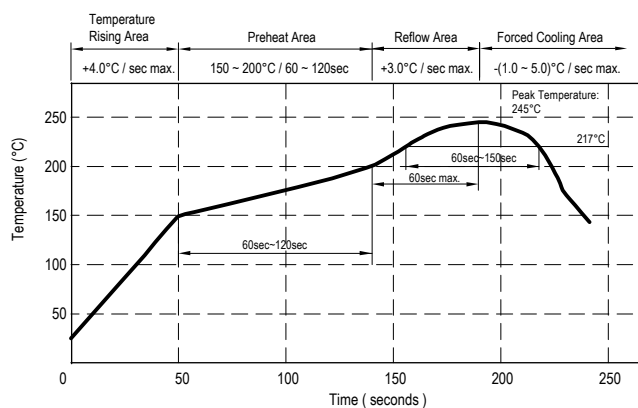
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F & H class
- Product weight: 1.90g(ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Closed magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Engineering plastic substrate base with tinned copper terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs.
- Recommended IR Reflow:
Peak Temp: 245°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



BS0906-L Series

ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (MHz)	SRF (MHz) typ.	RDC (Ω) max.	Isat (A) typ.	Irms (A) typ.
BS09062R7ML□-□□□	2.7 $\pm$ 20%	23	7.960	88.0	0.040	4.90	3.20
BS09063R5ML□-□□□	3.5 $\pm$ 20%	23	7.960	85.0	0.045	4.40	2.90
BS09064R7ML□-□□□	4.7 $\pm$ 20%	23	7.960	75.0	0.050	3.90	2.70
BS09065R6ML□-□□□	5.6 $\pm$ 20%	23	7.960	58.0	0.055	3.50	2.60
BS09066R8ML□-□□□	6.8 $\pm$ 20%	23	7.960	42.0	0.060	3.30	2.40
BS09068R2ML□-□□□	8.2 $\pm$ 20%	23	7.960	28.0	0.065	3.00	2.30
BS0906100ML□-□□□	10.0 $\pm$ 20%	50	2.520	27.0	0.080	2.65	2.10
BS0906120ML□-□□□	12.0 $\pm$ 20%	50	2.520	24.0	0.085	2.40	2.00
BS0906150ML□-□□□	15.0 $\pm$ 20%	50	2.520	23.0	0.100	2.30	1.90
BS0906180ML□-□□□	18.0 $\pm$ 20%	50	2.520	20.0	0.115	2.00	1.70
BS0906220ML□-□□□	22.0 $\pm$ 20%	50	2.520	17.0	0.125	1.85	1.60
BS0906270ML□-□□□	27.0 $\pm$ 20%	50	2.520	16.0	0.135	1.65	1.50
BS0906330ML□-□□□	33.0 $\pm$ 20%	50	2.520	15.0	0.150	1.50	1.45
BS0906390ML□-□□□	39.0 $\pm$ 20%	50	2.520	13.0	0.165	1.35	1.40
BS0906470ML□-□□□	47.0 $\pm$ 20%	50	2.520	12.0	0.190	1.25	1.30
BS0906560ML□-□□□	56.0 $\pm$ 20%	50	2.520	8.8	0.290	1.20	1.00
BS0906680ML□-□□□	68.0 $\pm$ 20%	50	2.520	8.3	0.320	1.10	0.88
BS0906820ML□-□□□	82.0 $\pm$ 20%	50	2.520	7.4	0.350	1.00	0.85
BS0906101YL□-□□□	100.0 $\pm$ 15%	40	0.796	6.7	0.400	0.90	0.82
BS0906121YL□-□□□	120.0 $\pm$ 15%	40	0.796	6.2	0.460	0.80	0.75
BS0906151YL□-□□□	150.0 $\pm$ 15%	40	0.796	5.8	0.500	0.70	0.70
BS0906181YL□-□□□	180.0 $\pm$ 15%	40	0.796	4.8	0.780	0.65	0.55
BS0906221YL□-□□□	220.0 $\pm$ 15%	40	0.796	4.4	0.870	0.60	0.53
BS0906271YL□-□□□	270.0 $\pm$ 15%	40	0.796	4.2	0.990	0.55	0.48
BS0906331YL□-□□□	330.0 $\pm$ 15%	40	0.796	3.9	1.110	0.50	0.46
BS0906391YL□-□□□	390.0 $\pm$ 15%	40	0.796	3.5	1.240	0.45	0.45
BS0906471YL□-□□□	470.0 $\pm$ 15%	40	0.796	3.3	1.370	0.41	0.43
BS0906561YL□-□□□	560.0 $\pm$ 15%	40	0.796	3.1	1.610	0.37	0.40
BS0906681YL□-□□□	680.0 $\pm$ 15%	60	0.796	2.8	2.780	0.35	0.29
BS0906821YL□-□□□	820.0 $\pm$ 15%	60	0.796	2.2	3.070	0.32	0.27
BS0906102YL□-□□□	1000.0 $\pm$ 15%	100	0.252	2.1	3.440	0.29	0.26
BS0906122YL□-□□□	1200.0 $\pm$ 15%	100	0.252	1.8	3.920	0.26	0.25
BS0906152YL□-□□□	1500.0 $\pm$ 15%	100	0.252	1.7	4.290	0.23	0.22
BS0906182YL□-□□□	1800.0 $\pm$ 15%	100	0.252	1.6	6.340	0.22	0.19
BS0906222YL□-□□□	2200.0 $\pm$ 15%	100	0.252	1.5	7.220	0.18	0.18
BS0906272YL□-□□□	2700.0 $\pm$ 15%	100	0.252	1.4	7.990	0.17	0.17
BS0906332YL□-□□□	3300.0 $\pm$ 15%	100	0.252	1.3	9.230	0.16	0.16
BS0906392YL□-□□□	3900.0 $\pm$ 15%	100	0.252	1.1	14.290	0.15	0.12
BS0906472YL□-□□□	4700.0 $\pm$ 15%	100	0.252	1.0	16.140	0.14	0.11
BS0906562YL□-□□□	5600.0 $\pm$ 15%	100	0.252	1.0	17.940	0.13	0.10
BS0906682YL□-□□□	6800.0 $\pm$ 15%	100	0.252	0.9	20.700	0.11	0.09
BS0906822YL□-□□□	8200.0 $\pm$ 15%	100	0.252	0.9	27.510	0.10	0.08
BS0906103YL□-□□□	10000.0 $\pm$ 15%	100	0.0796	0.9	32.970	0.08	0.07

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

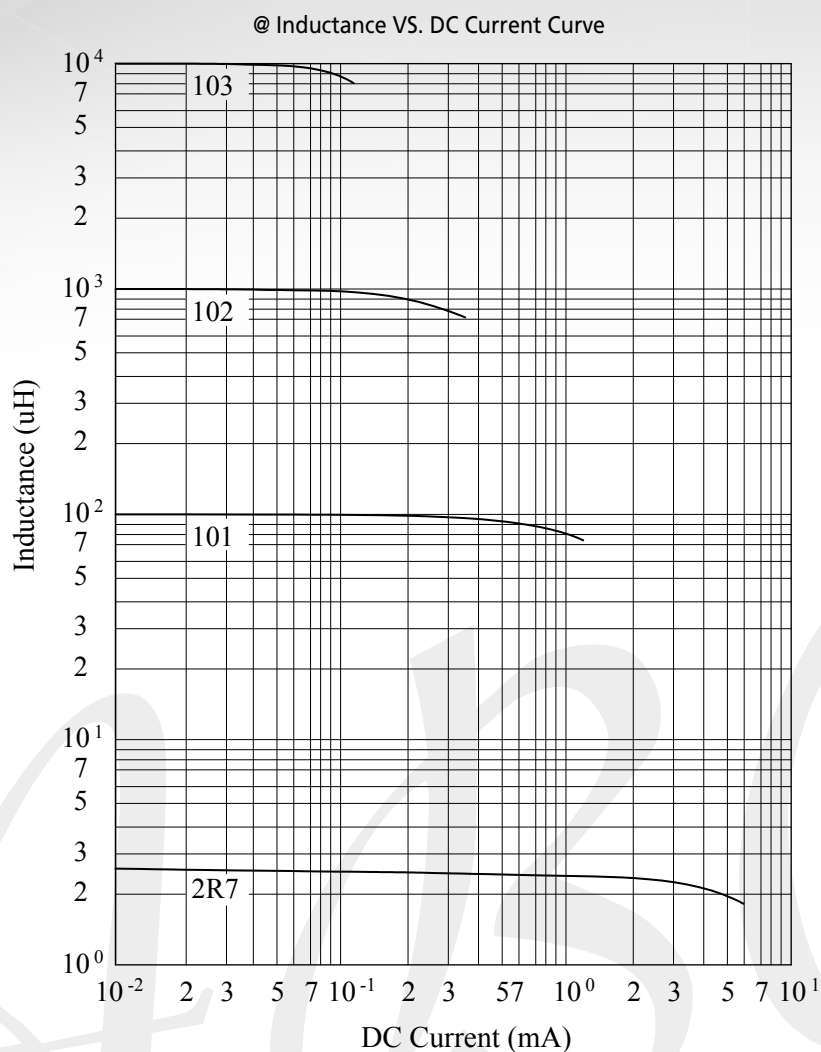
4. Inductance Test Condition.:100kHz / 0.1V

5. Isat base on ΔL / L0A=10% typ. (Approximately transient current)

6. Irms base on Temp. rise 40°Ctyp.

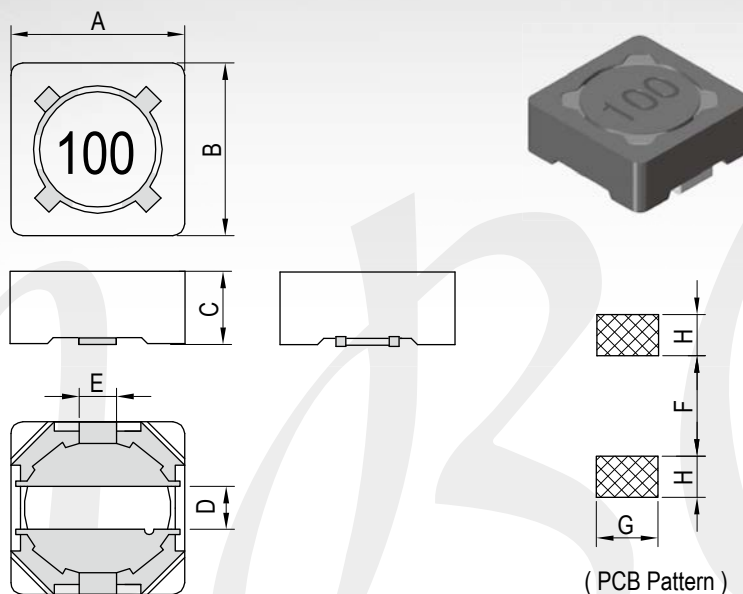
BS0906-L Series

CURVE



CS0703/0704-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H
CS0703-L	7.60 max.	7.60 max.	3.55 max.	1.30 typ.	2.60 typ.	3.50 ref.	3.25 ref.	2.50 ref.
CS0704-L	7.60 max.	7.60 max.	4.55 max.	1.30 typ.	2.60 typ.	3.50 ref.	3.25 ref.	2.50 ref.

DESCRIPTION

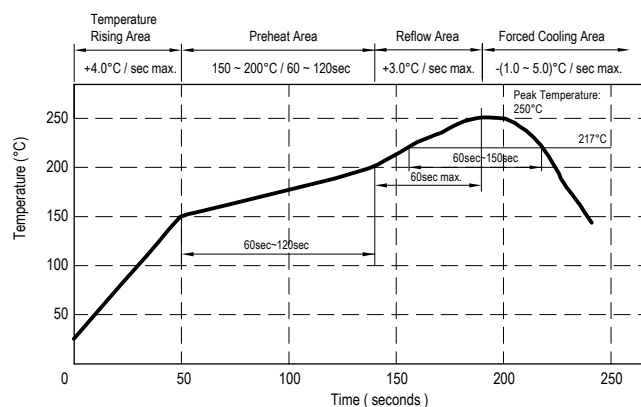
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F & H class
- Product weight: 0.70 (0703) / 0.85 (0704)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Tinned copper lead frame adhesive with drum core soldering joint with winding offer economic structure.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.



CS0703/0704-L Series

ELECTRICAL CHARACTERISTICS

■ CS0703-L Series

DWG. No.	Inductance (μ H)	Test Freq. (Hz) / 1V	RDC (Ω) max.	I _{rms} (A) max.	I _{sat} (A) max.
CS07031R5YL□-□□□	1.5 $\pm$ 30%	1k	0.019	4.50	5.20
CS07032R2ML□-□□□	2.2 $\pm$ 20%	1k	0.022	4.10	4.50
CS07033R3ML□-□□□	3.3 $\pm$ 20%	1k	0.032	3.30	3.30
CS07034R7ML□-□□□	4.7 $\pm$ 20%	1k	0.036	3.00	2.70
CS0703100ML□-□□□	10.0 $\pm$ 20%	1k	0.072	2.10	1.85
CS0703120ML□-□□□	12.0 $\pm$ 20%	1k	0.085	1.90	1.60
CS0703150ML□-□□□	15.0 $\pm$ 20%	1k	0.105	1.60	1.52
CS0703180ML□-□□□	18.0 $\pm$ 20%	1k	0.125	1.40	1.40
CS0703220ML□-□□□	22.0 $\pm$ 20%	1k	0.160	1.20	1.28
CS0703270ML□-□□□	27.0 $\pm$ 20%	1k	0.185	1.10	1.15
CS0703330ML□-□□□	33.0 $\pm$ 20%	1k	0.220	1.00	1.04
CS0703390ML□-□□□	39.0 $\pm$ 20%	1k	0.250	0.95	0.96
CS0703470ML□-□□□	47.0 $\pm$ 20%	1k	0.320	0.85	0.88
CS0703560ML□-□□□	56.0 $\pm$ 20%	1k	0.350	0.78	0.80
CS0703680ML□-□□□	68.0 $\pm$ 20%	1k	0.400	0.72	0.74
CS0703820ML□-□□□	82.0 $\pm$ 20%	1k	0.480	0.63	0.65
CS0703101ML□-□□□	100.0 $\pm$ 20%	1k	0.630	0.54	0.60
CS0703121ML□-□□□	120.0 $\pm$ 20%	1k	0.720	0.53	0.55
CS0703151ML□-□□□	150.0 $\pm$ 20%	1k	0.930	0.47	0.48
CS0703181ML□-□□□	180.0 $\pm$ 20%	1k	1.150	0.43	0.45
CS0703221ML□-□□□	220.0 $\pm$ 20%	1k	1.320	0.40	0.42
CS0703271ML□-□□□	270.0 $\pm$ 20%	1k	1.700	0.30	0.37
CS0703331ML□-□□□	330.0 $\pm$ 20%	1k	2.000	0.33	0.33
CS0703391ML□-□□□	390.0 $\pm$ 20%	1k	2.300	0.30	0.30
CS0703471ML□-□□□	470.0 $\pm$ 20%	1k	2.800	0.26	0.27
CS0703561ML□-□□□	560.0 $\pm$ 20%	1k	3.500	0.23	0.25
CS0703681ML□-□□□	680.0 $\pm$ 20%	1k	4.000	0.21	0.22
CS0703821ML□-□□□	820.0 $\pm$ 20%	1k	5.200	0.19	0.21
CS0703102ML□-□□□	1000.0 $\pm$ 20%	1k	5.800	0.17	0.18

1. □: Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. Inductance Test Freq.: 1kHz / 1V

5. I_{rms} base on Temp. rise 40°C max.

6. I_{sat} base on $\Delta L/L_0 A=25\%$ max.

CS0703/0704-L Series

■ CS0704-L Series

DWG. No.	Inductance (μ H)	Test Freq. (Hz) / 1V	RDC (Ω) max.	I _{rms} (A) max.	I _{sat} (A) max.
CS07043R3ML□-□□□	3.3 $\pm$ 20%	1k	0.024	3.50	4.80
CS07044R7ML□-□□□	4.7 $\pm$ 20%	1k	0.029	3.20	4.00
CS07048R2ML□-□□□	8.2 $\pm$ 20%	1k	0.045	2.60	2.80
CS0704100ML□-□□□	10.0 $\pm$ 20%	1k	0.052	2.10	2.50
CS0704120ML□-□□□	12.0 $\pm$ 20%	1k	0.062	2.00	2.30
CS0704150ML□-□□□	15.0 $\pm$ 20%	1k	0.075	1.90	2.10
CS0704180ML□-□□□	18.0 $\pm$ 20%	1k	0.090	1.80	1.95
CS0704220ML□-□□□	22.0 $\pm$ 20%	1k	0.100	1.65	1.75
CS0704270ML□-□□□	27.0 $\pm$ 20%	1k	0.130	1.45	1.62
CS0704330ML□-□□□	33.0 $\pm$ 20%	1k	0.170	1.35	1.45
CS0704390ML□-□□□	39.0 $\pm$ 20%	1k	0.190	1.17	1.30
CS0704470ML□-□□□	47.0 $\pm$ 20%	1k	0.230	1.05	1.20
CS0704560ML□-□□□	56.0 $\pm$ 20%	1k	0.280	0.95	1.10
CS0704680ML□-□□□	68.0 $\pm$ 20%	1k	0.350	0.86	0.96
CS0704820ML□-□□□	82.0 $\pm$ 20%	1k	0.400	0.78	0.90
CS0704101ML□-□□□	100.0 $\pm$ 20%	1k	0.450	0.70	0.78
CS0704121ML□-□□□	120.0 $\pm$ 20%	1k	0.550	0.60	0.70
CS0704151ML□-□□□	150.0 $\pm$ 20%	1k	0.760	0.48	0.58
CS0704181ML□-□□□	180.0 $\pm$ 20%	1k	0.820	0.46	0.54
CS0704221ML□-□□□	220.0 $\pm$ 20%	1k	1.000	0.42	0.50
CS0704271ML□-□□□	270.0 $\pm$ 20%	1k	1.200	0.38	0.46
CS0704331ML□-□□□	330.0 $\pm$ 20%	1k	1.500	0.34	0.40
CS0704391ML□-□□□	390.0 $\pm$ 20%	1k	1.850	0.32	0.36
CS0704471ML□-□□□	470.0 $\pm$ 20%	1k	2.200	0.29	0.34
CS0704561ML□-□□□	560.0 $\pm$ 20%	1k	2.600	0.26	0.30
CS0704681ML□-□□□	680.0 $\pm$ 20%	1k	2.900	0.24	0.28
CS0704821ML□-□□□	820.0 $\pm$ 20%	1k	3.600	0.22	0.26
CS0704102ML□-□□□	1000.0 $\pm$ 20%	1k	5.000	0.20	0.24

1. □ : Packaging information: □ Code

2. "-□□□": Reference code

3. Electrical specifications at 25°C

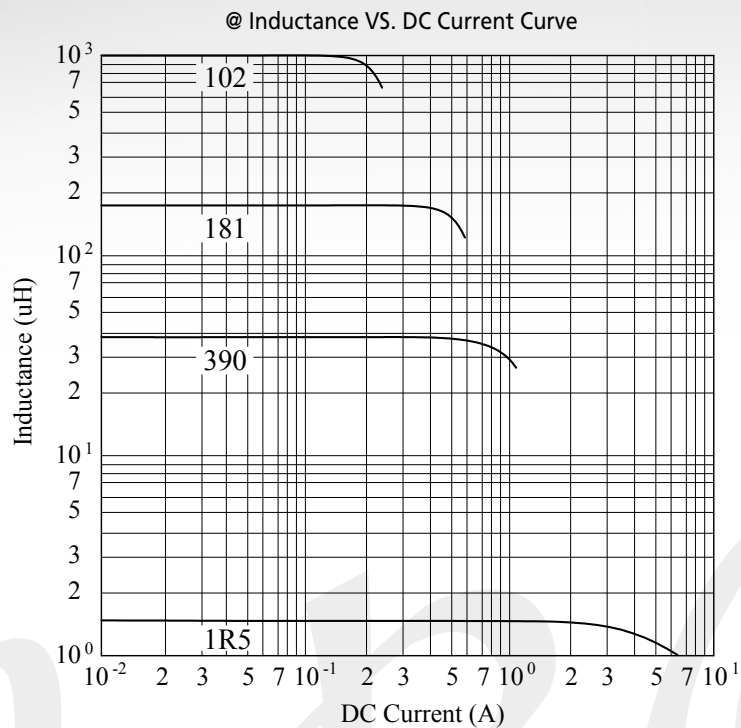
4. Inductance Test Freq.: 1kHz / 1V

5. I_{rms} base on Temp. rise 40°C max.6. I_{sat} base on $\Delta L/L_0$ =25% max.

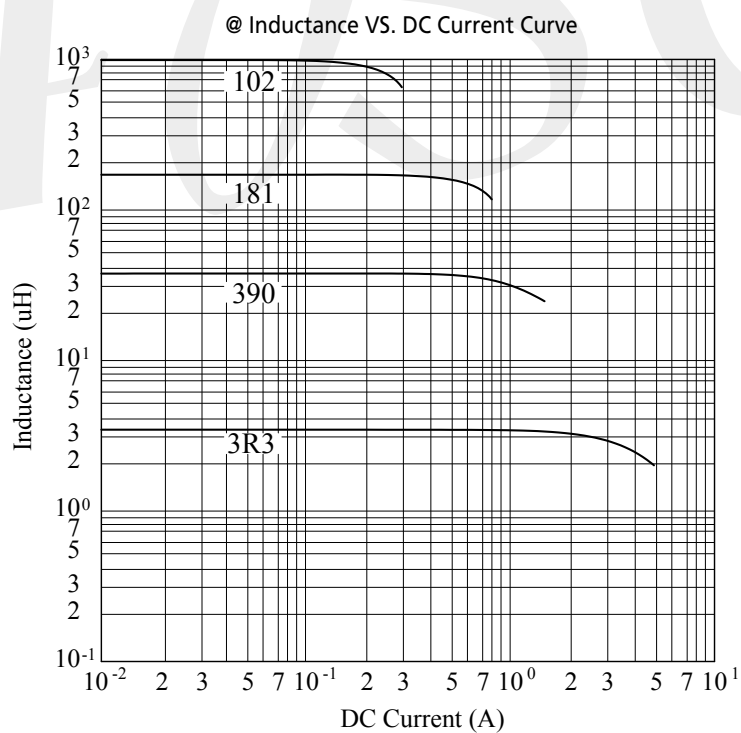
CS0703/0704-L Series

CURVE

■ CS0703-L Series

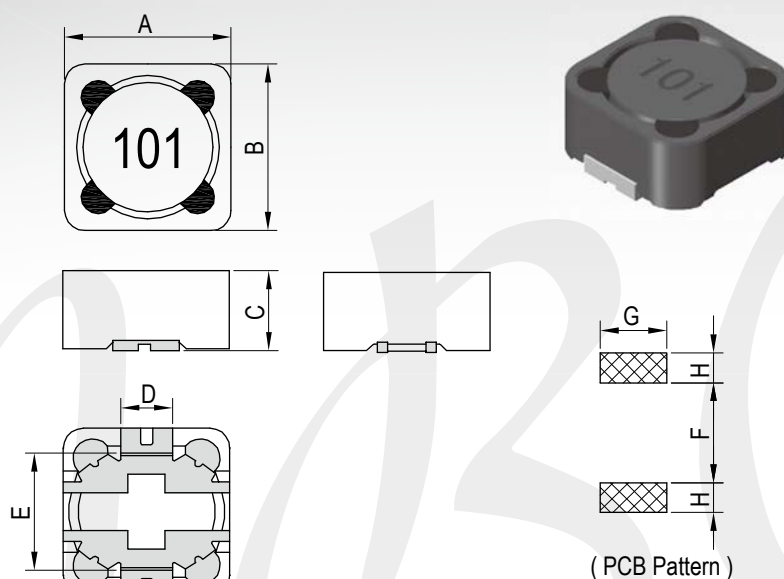


■ CS0704-L Series



CS1205/1206/1208-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H
CS1205-L	12.00±0.30	12.00±0.30	5.00 max.	4.90 typ.	7.90 typ.	7.30 typ.	5.30 ref.	2.80 ref.
CS1206-L	12.50±0.30	12.50±0.30	6.00±0.50	4.90 typ.	7.90 typ.	7.30 typ.	5.30 ref.	2.80 ref.
CS1208-L	12.50±0.30	12.50±0.30	8.00 max.	4.90 typ.	7.90 typ.	7.30 typ.	5.30 ref.	2.80 ref.

DESCRIPTION

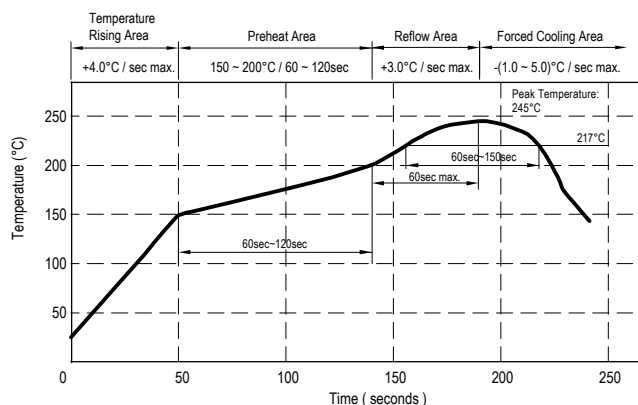
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F class (1208)
F & H class (1205,1206)
- Product weight: 2.90 (1205) / 3.10 (1206) / 4.50 (1208)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs.
- Recommended IR Reflow:
Peak Temp: 245°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Tinned copper lead frame adhesive with drum core soldering joint with winding offer economic structure.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.



CS1205/1206/1208-L Series

ELECTRICAL CHARACTERISTICS

■ CS1205-L Series

DWG. No.	Inductance (μ H)	RDC ($m\Omega$)		Isat (A) typ.	Irms (A) typ.
		ref.	max.		
CS1205100ML□-□□□	10.0 $\pm$ 20%	29.9	42.0	5.6	4.9
CS1205120ML□-□□□	12.0 $\pm$ 20%	33.4	47.0	5.2	4.0
CS1205150ML□-□□□	15.0 $\pm$ 20%	38.6	55.0	4.7	3.6
CS1205180ML□-□□□	18.0 $\pm$ 20%	46.0	65.0	4.3	3.4
CS1205220ML□-□□□	22.0 $\pm$ 20%	58.1	80.0	3.8	3.0
CS1205270ML□-□□□	27.0 $\pm$ 20%	66.1	92.0	3.5	2.7
CS1205330ML□-□□□	33.0 $\pm$ 20%	79.6	112.0	3.1	2.4
CS1205390ML□-□□□	39.0 $\pm$ 20%	93.0	120.0	2.9	2.1
CS1205470ML□-□□□	47.0 $\pm$ 20%	124.0	160.0	2.5	1.8
CS1205560ML□-□□□	56.0 $\pm$ 20%	138.0	180.0	2.4	1.6
CS1205680ML□-□□□	68.0 $\pm$ 20%	161.0	122.0	2.3	1.5
CS1205820ML□-□□□	82.0 $\pm$ 20%	188.0	210.0	2.1	1.3
CS1205101ML□-□□□	100.0 $\pm$ 20%	232.0	300.0	1.9	1.2
CS1205121KL□-□□□	120.0 $\pm$ 10%	263.0	340.0	1.7	1.1
CS1205151KL□-□□□	150.0 $\pm$ 10%	325.0	420.0	1.6	1.1
CS1205181KL□-□□□	180.0 $\pm$ 10%	416.0	540.0	1.4	1.0
CS1205221KL□-□□□	220.0 $\pm$ 10%	501.0	650.0	1.2	0.9
CS1205271KL□-□□□	270.0 $\pm$ 10%	605.0	785.0	1.1	0.9
CS1205331KL□-□□□	330.0 $\pm$ 10%	688.0	890.0	1.0	0.8
CS1205391KL□-□□□	390.0 $\pm$ 10%	858.0	1100.0	1.0	0.7
CS1205471KL□-□□□	470.0 $\pm$ 10%	1012.0	1310.0	0.9	0.6
CS1205561KL□-□□□	560.0 $\pm$ 10%	1231.0	1600.0	0.8	0.6
CS1205681KL□-□□□	680.0 $\pm$ 10%	1535.0	2000.0	0.7	0.5
CS1205821KL□-□□□	820.0 $\pm$ 10%	1917.0	2500.0	0.6	0.4
CS1205102KL□-□□□	1000.0 $\pm$ 10%	2303.0	3000.0	0.6	0.4

1. □ : Packaging information: □ Code

2. "-□□□": Reference code

3. Electrical specifications at 25°C

4. L Test Condition: 100kHz / 0.1V

5. Irms base on Temp. rise 40°C typ.

6. Isat base on $\Delta L/L0A=25\%$ typ.

CS1205/1206/1208-L Series

■ CS1206-L Series

DWG. No.	Inductance (μ H)	RDC ($m\Omega$)		Isat (A) typ.	Irms (A) typ.
		ref.	max.		
CS1206100ML□-□□□	10.0 $\pm$ 20%	24.9	35.0	5.50	4.80
CS1206120ML□-□□□	12.0 $\pm$ 20%	26.9	38.0	5.00	4.30
CS1206150ML□-□□□	15.0 $\pm$ 20%	29.2	41.0	4.60	4.00
CS1206180ML□-□□□	18.0 $\pm$ 20%	35.9	51.0	3.90	4.00
CS1206220ML□-□□□	22.0 $\pm$ 20%	38.2	54.0	3.70	3.80
CS1206270ML□-□□□	27.0 $\pm$ 20%	43.8	62.0	3.30	3.00
CS1206330ML□-□□□	33.0 $\pm$ 20%	67.9	95.0	2.80	2.50
CS1206390ML□-□□□	39.0 $\pm$ 20%	70.9	100.0	2.70	2.40
CS1206470ML□-□□□	47.0 $\pm$ 20%	103.0	135.0	2.50	2.20
CS1206560ML□-□□□	56.0 $\pm$ 20%	111.0	145.0	2.20	2.00
CS1206680ML□-□□□	68.0 $\pm$ 20%	124.0	160.0	2.10	2.00
CS1206820ML□-□□□	82.0 $\pm$ 20%	142.0	185.0	1.90	1.70
CS1206101ML□-□□□	100.0 $\pm$ 20%	180.0	235.0	1.70	1.50
CS1206121KL□-□□□	120.0 $\pm$ 10%	201.0	260.0	1.65	1.40
CS1206151KL□-□□□	150.0 $\pm$ 10%	247.0	320.0	1.55	1.30
CS1206181KL□-□□□	180.0 $\pm$ 10%	272.0	350.0	1.40	1.20
CS1206221KL□-□□□	220.0 $\pm$ 10%	361.0	460.0	1.30	1.10
CS1206271KL□-□□□	270.0 $\pm$ 10%	404.0	520.0	1.20	1.00
CS1206331KL□-□□□	330.0 $\pm$ 10%	530.0	690.0	1.10	0.90
CS1206391KL□-□□□	390.0 $\pm$ 10%	680.0	880.0	1.00	0.80
CS1206471KL□-□□□	470.0 $\pm$ 10%	766.0	995.0	0.90	0.70
CS1206561KL□-□□□	560.0 $\pm$ 10%	1002.0	1200.0	0.80	0.65
CS1206681KL□-□□□	680.0 $\pm$ 10%	1140.0	1360.0	0.75	0.63
CS1206821KL□-□□□	820.0 $\pm$ 10%	1390.0	1660.0	0.63	0.50
CS1206102KL□-□□□	1000.0 $\pm$ 10%	1720.0	2050.0	0.60	0.50

1. □ : Packaging information: □ Code
2. "- □□□": Reference code
3. Electrical specifications at 25°C

4. L Test Condition: 1kHz / 0.1V
5. Irms base on Temp. rise 40°C typ.
6. Isat base on $\Delta L/L0A=25\%$ typ.

CS1205/1206/1208-L Series

■ CS1208-L Series

DWG. No.	Inductance (μ H)	RDC ($m\Omega$)		Isat (A) typ.	Irms (A) typ.
		ref.	max.		
CS12082R5YL□-□□□	2.5 $\pm$ 30%	10.3	14.5	10.50	7.10
CS12084R5YL□-□□□	4.5 $\pm$ 30%	12.8	18.0	8.80	6.20
CS12086R5YL□-□□□	6.5 $\pm$ 30%	15.2	20.0	8.50	6.00
CS1208100ML□-□□□	10.0 $\pm$ 20%	18.2	25.0	7.20	5.20
CS1208120ML□-□□□	12.0 $\pm$ 20%	21.7	29.0	6.30	4.90
CS1208150ML□-□□□	15.0 $\pm$ 20%	26.3	35.0	6.00	4.50
CS1208180ML□-□□□	18.0 $\pm$ 20%	30.3	40.0	5.00	4.00
CS1208220ML□-□□□	22.0 $\pm$ 20%	35.4	46.0	4.50	3.60
CS1208270ML□-□□□	27.0 $\pm$ 20%	43.4	55.0	4.00	3.30
CS1208330ML□-□□□	33.0 $\pm$ 20%	55.6	70.5	3.60	3.00
CS1208390ML□-□□□	39.0 $\pm$ 20%	68.9	86.0	3.30	2.70
CS1208470ML□-□□□	47.0 $\pm$ 20%	75.4	95.0	3.20	2.40
CS1208560ML□-□□□	56.0 $\pm$ 20%	88.2	110.0	2.80	2.20
CS1208680ML□-□□□	68.0 $\pm$ 20%	109.0	135.0	2.50	2.00
CS1208820ML□-□□□	82.0 $\pm$ 20%	115.0	150.0	2.40	1.90
CS1208101ML□-□□□	100.0 $\pm$ 20%	133.0	170.0	2.10	1.80
CS1208121KL□-□□□	120.0 $\pm$ 10%	168.0	210.0	2.00	1.70
CS1208151KL□-□□□	150.0 $\pm$ 10%	214.0	270.0	1.80	1.60
CS1208181KL□-□□□	180.0 $\pm$ 10%	233.0	300.0	1.60	1.50
CS1208221KL□-□□□	220.0 $\pm$ 10%	308.0	390.0	1.50	1.40
CS1208271KL□-□□□	270.0 $\pm$ 10%	354.0	450.0	1.40	1.30
CS1208331KL□-□□□	330.0 $\pm$ 10%	424.0	550.0	1.20	1.20
CS1208391KL□-□□□	390.0 $\pm$ 10%	464.0	600.0	1.10	1.10
CS1208471KL□-□□□	470.0 $\pm$ 10%	573.0	820.0	1.00	1.00
CS1208561KL□-□□□	560.0 $\pm$ 10%	673.0	850.0	1.00	0.90
CS1208681KL□-□□□	680.0 $\pm$ 10%	825.0	1030.0	0.90	0.80
CS1208821KL□-□□□	820.0 $\pm$ 10%	953.0	1200.0	0.80	0.70
CS1208102KL□-□□□	1000.0 $\pm$ 10%	1173.0	1500.0	0.75	0.65
CS1208122KL□-□□□	1200.0 $\pm$ 10%	1398.0	1800.0	0.70	0.60
CS1208152KL□-□□□	1500.0 $\pm$ 10%	1706.0	2200.0	0.60	0.50

1. □ : Packaging information: □ Code

2. "-□□□": Reference code

3. Electrical specifications at 25°C

4. L Test Condition: 1kHz / 0.1V

5. Irms base on Temp. rise 40°C typ.

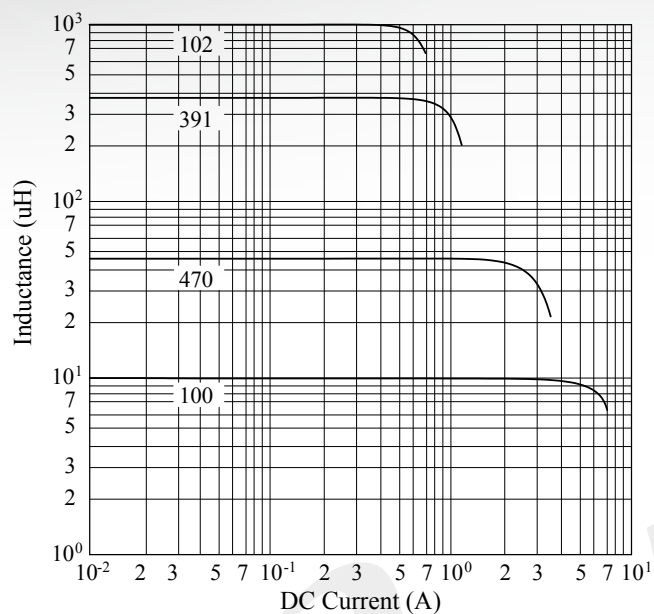
6. Isat base on $\Delta L/L0A=25\%$ typ.

CS1205/1206/1208-L Series

CURVE

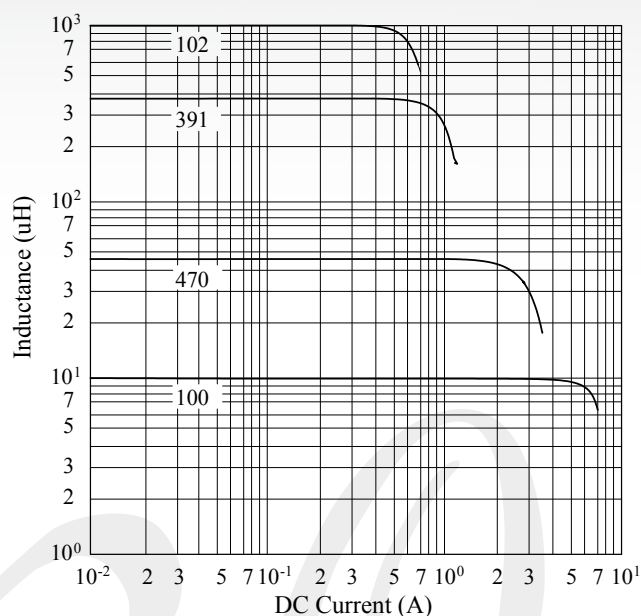
■ CS1205-L Series

@ Inductance VS. DC Current Curve



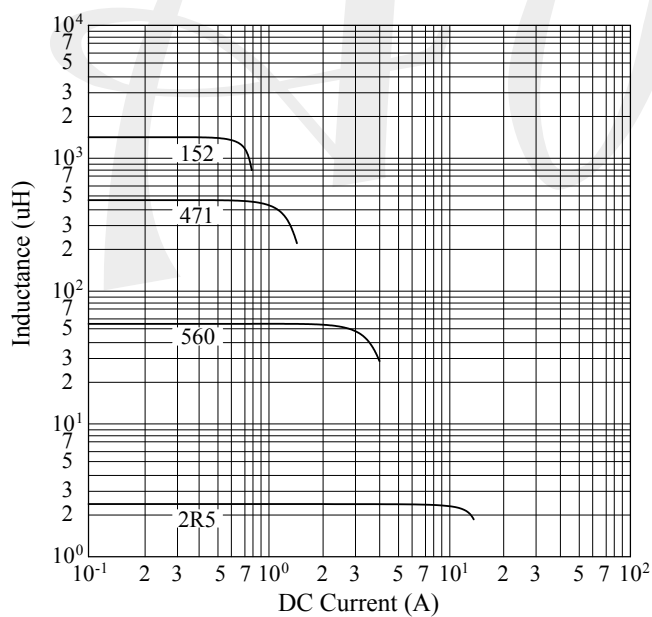
■ CS1206-L Series

@ Inductance VS. DC Current Curve



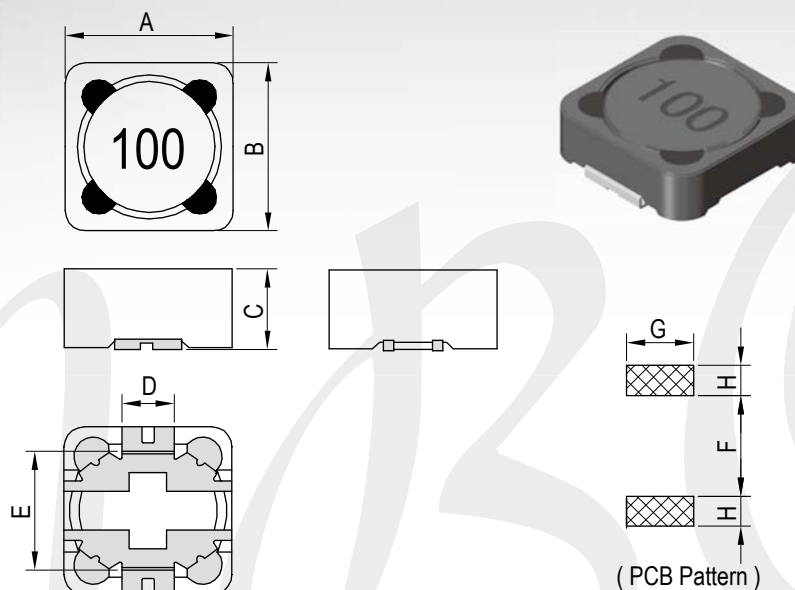
■ CS1208-L Series

@ Inductance VS. DC Current Curve



CS1240/1260/1280-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H
CS1240-L	12.50±0.30	12.50±0.30	4.50 max.	4.90 typ.	7.90 typ.	7.30 ref.	5.30 ref.	2.80 ref.
CS1260-L	12.00±0.30	12.00±0.30	6.00 max.	4.90 typ.	7.90 typ.	7.30 ref.	5.30 ref.	2.80 ref.
CS1280-L	12.00±0.50	12.00±0.50	8.00 max.	5.00 typ.	7.60 typ.	7.40 ref.	5.40 ref.	2.80 ref.

DESCRIPTION

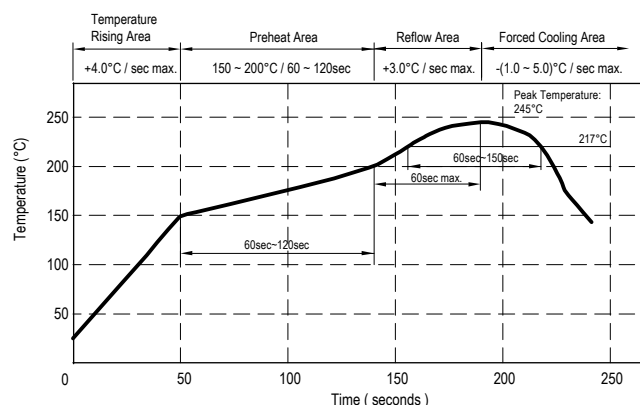
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F class (1260)
F & H class (1240,1280)
- Product weight: 2.10 (1240) / 3.20 (1260) / 4.00 (1280)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs.
- Recommended IR Reflow:
Peak Temp: 245°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Tinned copper lead frame adhesive with drum core soldering joint with winding offer economic structure.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.



CS1240/1260/1280-L Series

ELECTRICAL CHARACTERISTICS

■ CS1240-L Series

DWG. No.	Inductance (μ H)	RDC ($m\Omega$)		Isat (A) typ.	Irms (A) typ.
		ref.	max.		
CS1240100ML□-□□□	10.0 $\pm$ 20%	33.5	47.0	3.90	3.50
CS1240120ML□-□□□	12.0 $\pm$ 20%	35.9	55.0	3.70	3.40
CS1240150ML□-□□□	15.0 $\pm$ 20%	54.6	76.0	3.20	2.90
CS1240180ML□-□□□	18.0 $\pm$ 20%	62.1	87.0	2.80	2.60
CS1240220ML□-□□□	22.0 $\pm$ 20%	66.1	93.0	2.70	2.30
CS1240270ML□-□□□	27.0 $\pm$ 20%	90.0	127.0	2.30	2.00
CS1240330ML□-□□□	33.0 $\pm$ 20%	101.0	135.0	2.20	1.90
CS1240390ML□-□□□	39.0 $\pm$ 20%	112.0	150.0	2.00	1.80
CS1240470ML□-□□□	47.0 $\pm$ 20%	142.0	185.0	1.80	1.60
CS1240560ML□-□□□	56.0 $\pm$ 20%	154.0	200.0	1.70	1.50
CS1240680ML□-□□□	68.0 $\pm$ 20%	176.0	230.0	1.60	1.40
CS1240820ML□-□□□	82.0 $\pm$ 20%	196.0	255.0	1.50	1.40
CS1240101KL□-□□□	100.0 $\pm$ 10%	233.0	305.0	1.30	1.30
CS1240121KL□-□□□	120.0 $\pm$ 10%	302.0	390.0	1.10	1.10
CS1240151KL□-□□□	150.0 $\pm$ 10%	385.0	500.0	1.00	0.90
CS1240181KL□-□□□	180.0 $\pm$ 10%	428.0	560.0	0.95	0.84
CS1240221KL□-□□□	220.0 $\pm$ 10%	513.0	670.0	0.77	0.77
CS1240271KL□-□□□	270.0 $\pm$ 10%	620.0	805.0	0.68	0.77
CS1240331KL□-□□□	330.0 $\pm$ 10%	716.0	930.0	0.61	0.70
CS1240391KL□-□□□	390.0 $\pm$ 10%	879.0	1140.0	0.57	0.66
CS1240471KL□-□□□	470.0 $\pm$ 10%	1140.0	1480.0	0.50	0.57
CS1240561KL□-□□□	560.0 $\pm$ 10%	1287.0	1670.0	0.47	0.54
CS1240681KL□-□□□	680.0 $\pm$ 10%	1599.0	2070.0	0.41	0.48
CS1240821KL□-□□□	820.0 $\pm$ 10%	1849.0	2400.0	0.39	0.40
CS1240102KL□-□□□	1000.0 $\pm$ 10%	2375.0	3090.0	0.38	0.40

1. □ : Packaging information: □ Code

2. "- □□□" : Reference code

3. Electrical specifications at 25°C

4. L Test Condition: 1kHz / 0.1V

5. Irms base on Temp. rise 40°C typ.

6. Isat base on $\Delta L/L0A=25\%$ typ.

CS1240/1260/1280-L Series

■ CS1260-L Series

DWG. No.	Inductance (μ H)	RDC ($m\Omega$)		Isat (A) typ.	Irms (A) typ.
		ref.	max.		
CS1260100ML□-□□□	10.0 $\pm$ 20%	16.6	23.0	5.40	5.20
CS1260120ML□-□□□	12.0 $\pm$ 20%	18.8	26.0	5.20	5.00
CS1260150ML□-□□□	15.0 $\pm$ 20%	22.9	32.0	4.80	4.70
CS1260180ML□-□□□	18.0 $\pm$ 20%	28.7	40.0	4.10	4.50
CS1260220ML□-□□□	22.0 $\pm$ 20%	32.2	45.0	3.80	4.10
CS1260270ML□-□□□	27.0 $\pm$ 20%	43.6	60.0	3.50	3.50
CS1260330ML□-□□□	33.0 $\pm$ 20%	52.7	75.0	3.10	3.20
CS1260390ML□-□□□	39.0 $\pm$ 20%	59.9	85.0	2.80	3.00
CS1260470ML□-□□□	47.0 $\pm$ 20%	73.4	105.0	2.50	2.70
CS1260560ML□-□□□	56.0 $\pm$ 20%	80.5	115.0	2.30	2.60
CS1260680ML□-□□□	68.0 $\pm$ 20%	87.4	122.0	2.10	2.40
CS1260820ML□-□□□	82.0 $\pm$ 20%	110.0	145.0	2.00	2.20
CS1260101ML□-□□□	100.0 $\pm$ 20%	141.0	185.0	1.90	2.00
CS1260121KL□-□□□	120.0 $\pm$ 10%	177.0	230.0	1.70	1.80
CS1260151KL□-□□□	150.0 $\pm$ 10%	224.0	290.0	1.50	1.60
CS1260181KL□-□□□	180.0 $\pm$ 10%	249.0	325.0	1.30	1.40
CS1260221KL□-□□□	220.0 $\pm$ 10%	310.0	400.0	1.30	1.40
CS1260271KL□-□□□	270.0 $\pm$ 10%	349.0	450.0	1.10	1.30
CS1260331KL□-□□□	330.0 $\pm$ 10%	420.0	550.0	1.00	1.10
CS1260391KL□-□□□	390.0 $\pm$ 10%	507.0	660.0	1.00	1.10
CS1260471KL□-□□□	470.0 $\pm$ 10%	595.0	775.0	0.90	1.00
CS1260561KL□-□□□	560.0 $\pm$ 10%	685.0	890.0	0.80	0.90
CS1260681KL□-□□□	680.0 $\pm$ 10%	830.0	1080.0	0.70	0.90
CS1260821KL□-□□□	820.0 $\pm$ 10%	1010.0	1210.0	0.70	0.80
CS1260102KL□-□□□	1000.0 $\pm$ 10%	1230.0	1500.0	0.60	0.70

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. L Test Condition: 1kHz / 0.1V

5. Irms base on Temp. rise 40°C typ.

6. Isat base on $\Delta L/L0A=25\%$ typ.

CS1240/1260/1280-L Series

■ CS1280-L Series

DWG. No.	Inductance (μ H)	RDC (m Ω)		I _{rms} (A) typ.	I _{sat} (A) typ.
		typ.	max.		
CS12801R1YLB-□□□	1.10 $\pm$ 30%	4.5	6.5	10.20	14.00
CS12802R7YLB-□□□	2.70 $\pm$ 30%	7.2	10.0	9.20	10.50
CS12803R9YLB-□□□	3.90 $\pm$ 30%	11.3	12.0	8.80	9.80
CS12807R6YLB-□□□	7.60 $\pm$ 30%	13.7	18.0	6.40	7.00
CS1280100MLB-□□□	10.0 $\pm$ 20%	14.3	20.0	5.40	6.60
CS1280120MLB-□□□	12.0 $\pm$ 20%	17.8	28.0	4.90	6.30
CS1280150MLB-□□□	15.0 $\pm$ 20%	18.6	29.0	4.50	5.00
CS1280180MLB-□□□	18.0 $\pm$ 20%	25.8	35.0	3.90	4.60
CS1280220MLB-□□□	22.0 $\pm$ 20%	28.5	39.0	3.60	4.10
CS1280270MLB-□□□	27.0 $\pm$ 20%	40.2	52.0	3.40	3.70
CS1280330MLB-□□□	33.0 $\pm$ 20%	44.3	57.0	3.00	3.30
CS1280390MLB-□□□	39.0 $\pm$ 20%	49.4	70.0	2.75	3.10
CS1280470MLB-□□□	47.0 $\pm$ 20%	62.7	80.0	2.50	2.80
CS1280560MLB-□□□	56.0 $\pm$ 20%	70.0	100.0	2.35	2.50
CS1280680MLB-□□□	68.0 $\pm$ 20%	85.3	120.0	2.10	2.30
CS1280820MLB-□□□	82.0 $\pm$ 20%	105.0	130.0	1.95	2.20
CS1280101MLB-□□□	100.0 $\pm$ 20%	124.0	150.0	1.70	2.00
CS1280121MLB-□□□	120.0 $\pm$ 20%	141.0	200.0	1.60	1.95
CS1280151MLB-□□□	150.0 $\pm$ 20%	196.0	270.0	1.42	1.90
CS1280181MLB-□□□	180.0 $\pm$ 20%	227.0	300.0	1.30	1.88
CS1280221MLB-□□□	220.0 $\pm$ 20%	280.0	400.0	1.16	1.70
CS1280271MLB-□□□	270.0 $\pm$ 20%	315.0	450.0	1.06	1.60
CS1280331MLB-□□□	330.0 $\pm$ 20%	427.0	600.0	0.95	1.40
CS1280391MLB-□□□	390.0 $\pm$ 20%	466.0	680.0	0.88	1.40
CS1280471MLB-□□□	470.0 $\pm$ 20%	558.0	880.0	0.79	1.25
CS1280561MLB-□□□	560.0 $\pm$ 20%	700.0	960.0	0.73	1.15
CS1280681MLB-□□□	680.0 $\pm$ 20%	846.0	1300.0	0.67	0.97
CS1280821MLB-□□□	820.0 $\pm$ 20%	1009.0	1500.0	0.60	0.94
CS1280102MLB-□□□	1000.0 $\pm$ 20%	1252.0	1700.0	0.55	0.80

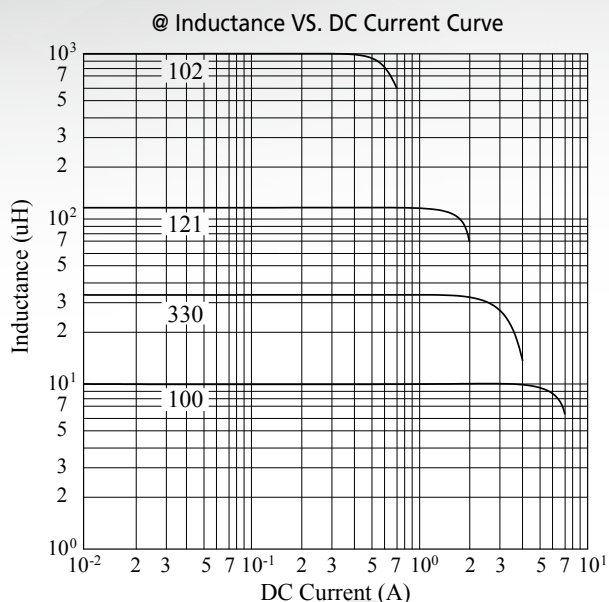
1. □ : Packaging information: □ Code
2. "-□□□": Reference code
3. Electrical specifications at 25°C

4. L Test Condition: 100kHz / 1V
5. I_{rms} base on Temp. rise 40°C typ.
6. I_{sat} base on $\Delta L/L_0A=25\%$ typ.

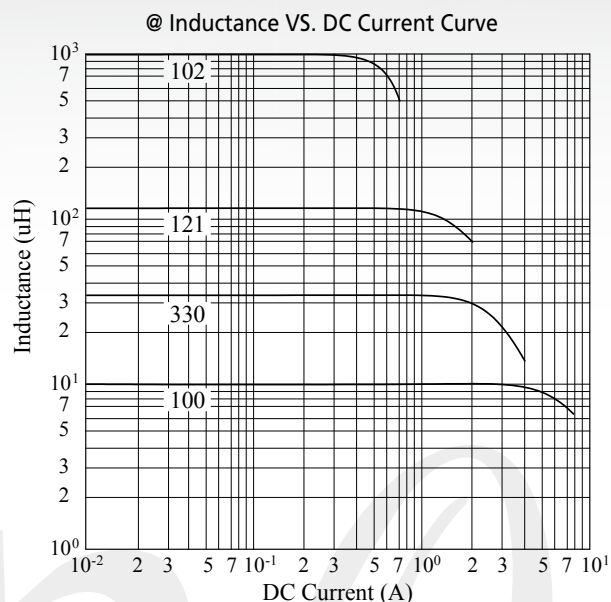
CS1240/1260/1280-L Series

CURVE

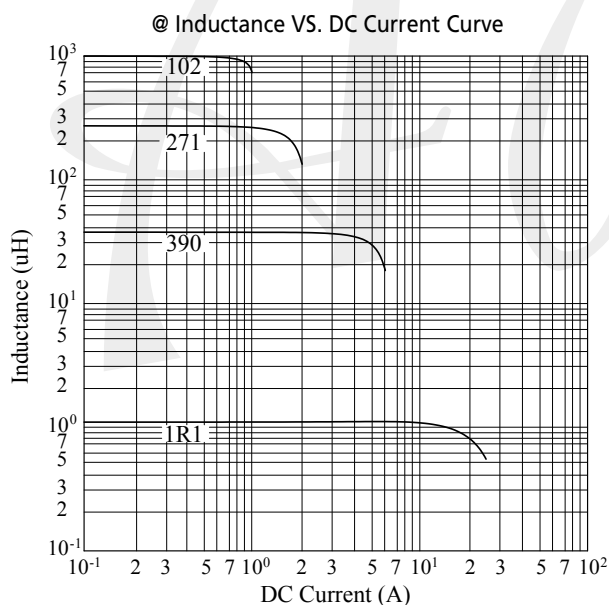
■ CS1240-L Series



■ CS1260-L Series

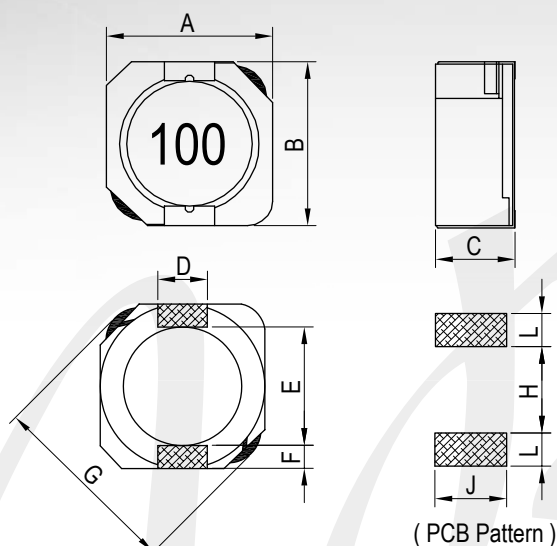


■ CS1280-L Series



CU8030/8043/1038/1048/1206-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	J	L
CU8030-L	8.00±0.30	8.20±0.30	2.80±0.30	2.40±0.30	6.40±0.40	1.00±0.15	10.00 ref.	6.00 ref.	2.60 ref.	1.30 ref.
CU8043-L	8.00±0.30	8.20±0.30	4.40±0.30	2.40±0.20	6.40±0.30	0.92±0.10	10.00 ref.	6.10 ref.	2.60 ref.	1.20 ref.
CU1038-L	10.00±0.30	10.20±0.30	3.80±0.30	3.00±0.30	7.80±0.30	1.20±0.15	13.50 ref.	7.30 ref.	3.20 ref.	1.60 ref.
CU1048-L	10.00±0.30	10.20±0.30	4.80±0.30	3.00±0.30	7.80±0.40	1.20±0.15	13.00 ref.	7.30 ref.	3.20 ref.	1.60 ref.
CU1206-L	12.00±0.40	12.40±0.40	5.80±0.30	3.60±0.30	9.80±0.40	1.30±0.30	14.50 ref.	8.80 ref.	3.80 ref.	1.70 ref.

DESCRIPTION

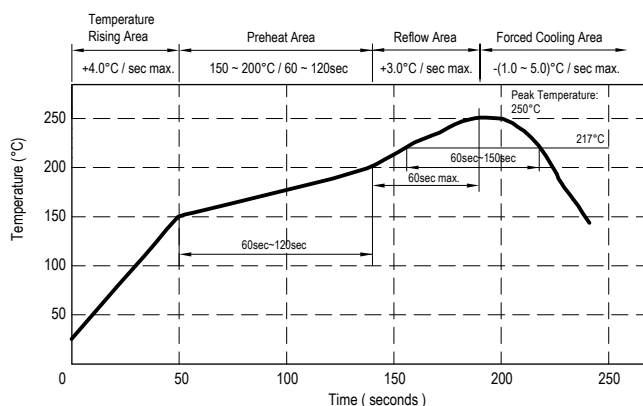
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: H class
- Product weight: 0.69 (8030) / 1.03 (8043) / 2.60 (1038) / 1.85 (1048) / 3.15 (1206)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs. (1038, 1048, 1206)
250°C.10 secs. (8030, 8043)
- Recommended IR Reflow:
 - Peak Temp: 245°C max. (1038, 1048, 1206)
 - 250°C max. (8030, 8043)
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Tinned copper clip assembly onto shielded ring with positional keep even gap between DR & RI offer inductance concentrate.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.



CU8030/8043/1038/1048/1206-L Series

ELECTRICAL CHARACTERISTICS

■ CU8030-L Series

DWG. No.	Inductance (μ H)	RDC ($m\Omega$)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
CU80303R3YL□-□□□	3.3 $\pm$ 30%	18.6	22.0	4.60	4.80
CU80304R7YL□-□□□	4.7 $\pm$ 30%	21.5	30.0	4.00	4.20
CU80306R8YL□-□□□	6.8 $\pm$ 30%	34.1	46.0	3.20	3.40
CU8030100YL□-□□□	10.0 $\pm$ 30%	43.5	60.0	2.60	2.80
CU8030150YL□-□□□	15.0 $\pm$ 30%	70.8	100.0	2.00	2.20
CU8030220YL□-□□□	22.0 $\pm$ 30%	104.0	130.0	1.75	1.85
CU8030330YL□-□□□	33.0 $\pm$ 30%	148.0	180.0	1.45	1.50
CU8030470YL□-□□□	47.0 $\pm$ 30%	228.0	260.0	1.25	1.30
CU8030680YL□-□□□	68.0 $\pm$ 30%	294.0	315.0	1.00	1.10
CU8030101YL□-□□□	100.0 $\pm$ 30%	435.0	520.0	0.75	0.85

1. □ : Packaging information: □ Code
2. "- □□□": Reference code
3. Electrical specifications at 25°C

4. L Test Condition: 100kHz / 0.1V
5. Irms base on Temp. rise 40°C typ.
6. Isat base on $\Delta L/L0A=35\%$ typ.

■ CU8043-L Series

DWG. No.	Inductance (μ H)	RDC ($m\Omega$)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
CU8043R47YL□-□□□	0.47 $\pm$ 30%	6.50	8.50	9.00	8.65
CU80431R0YL□-□□□	1.0 $\pm$ 30%	8.65	11.00	8.10	7.30
CU80432R2YL□-□□□	2.2 $\pm$ 30%	12.50	16.00	6.10	6.10
CU80433R3YL□-□□□	3.3 $\pm$ 30%	14.80	20.00	5.20	5.60
CU80434R7YL□-□□□	4.7 $\pm$ 30%	17.20	23.00	4.50	5.15
CU80436R8YL□-□□□	6.8 $\pm$ 30%	23.60	31.00	3.70	4.50
CU8043100ML□-□□□	10.0 $\pm$ 20%	31.50	41.00	3.15	3.80
CU8043150ML□-□□□	15.0 $\pm$ 20%	44.80	58.00	2.60	3.10
CU8043220ML□-□□□	22.0 $\pm$ 20%	65.30	85.00	2.05	2.60
CU8043330ML□-□□□	33.0 $\pm$ 20%	89.10	116.00	1.70	2.25
CU8043470ML□-□□□	47.0 $\pm$ 20%	132.00	170.00	1.40	1.80
CU8043680ML□-□□□	68.0 $\pm$ 20%	195.00	235.00	1.20	1.45
CU8043101ML□-□□□	100.0 $\pm$ 20%	289.00	347.00	1.00	1.20

1. □ : Packaging information: □ Code
2. "- □□□": Reference code
3. Electrical specifications at 25°C

4. L Test Condition: 100kHz / 0.1V
5. Irms base on Temp. rise 40°C typ.
6. Isat base on $\Delta L/L0A=35\%$ typ.

CU8030/8043/1038/1048/1206-L Series

■ CU1038-L Series

DWG. No.	Inductance (μ H)	RDC (m Ω)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
CU10383R3YL□-□□□	3.3 $\pm$ 30%	10.6	14.0	8.00	7.00
CU10385R6YL□-□□□	5.6 $\pm$ 30%	18.4	24.0	6.00	5.00
CU1038100YL□-□□□	10.0 $\pm$ 30%	30.5	40.0	4.40	4.00
CU1038120YL□-□□□	12.0 $\pm$ 30%	36.0	47.0	4.10	3.70
CU1038150YL□-□□□	15.0 $\pm$ 30%	40.7	53.0	3.80	3.50
CU1038180YL□-□□□	18.0 $\pm$ 30%	49.0	64.0	3.50	3.00
CU1038220YL□-□□□	22.0 $\pm$ 30%	60.5	80.0	3.10	2.70
CU1038270YL□-□□□	27.0 $\pm$ 30%	70.0	92.0	2.60	2.50
CU1038330YL□-□□□	33.0 $\pm$ 30%	84.0	110.0	2.50	2.20
CU1038390YL□-□□□	39.0 $\pm$ 30%	106.0	138.0	2.30	2.00
CU1038470YL□-□□□	47.0 $\pm$ 30%	118.0	147.5	2.10	1.80
CU1038560YL□-□□□	56.0 $\pm$ 30%	150.0	187.0	1.90	1.60
CU1038680YL□-□□□	68.0 $\pm$ 30%	172.0	215.0	1.80	1.50
CU1038820YL□-□□□	82.0 $\pm$ 30%	200.0	250.0	1.60	1.40
CU1038101YL□-□□□	100.0 $\pm$ 30%	260.0	324.5	1.50	1.25
CU1038121YL□-□□□	120.0 $\pm$ 30%	310.0	386.0	1.30	1.10
CU1038151YL□-□□□	150.0 $\pm$ 30%	360.5	450.0	1.20	1.00
CU1038181YL□-□□□	180.0 $\pm$ 30%	450.0	560.0	1.10	0.90
CU1038221YL□-□□□	220.0 $\pm$ 30%	555.0	694.0	1.00	0.80
CU1038271YL□-□□□	270.0 $\pm$ 30%	680.0	817.5	0.90	0.70
CU1038331YL□-□□□	330.0 $\pm$ 30%	850.0	1020.0	0.80	0.60

1. □ : Packaging information: □ Code
2. "-□□□": Reference code
3. Electrical specifications at 25°C

4. Inductance Test Condition.: 100kHz / 0.1V
5. Irms base on Temp. rise 40°C typ.
6. Isat base on $\Delta L/L0A=35\%$ typ.

CU8030/8043/1038/1048/1206-L Series

■ CU1048-L Series

DWG. No.	Inductance (μ H)	RDC (m Ω)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
CU1048R80YL□-□□□	0.8 $\pm$ 30%	3.7	5.0	13.50	9.50
CU10481R5YL□-□□□	1.5 $\pm$ 30%	4.9	7.0	10.50	8.30
CU10482R2YL□-□□□	2.2 $\pm$ 30%	5.8	8.0	8.20	7.20
CU10483R3YL□-□□□	3.3 $\pm$ 30%	7.9	11.0	7.80	6.50
CU10484R7YL□-□□□	4.7 $\pm$ 30%	10.4	14.1	6.40	6.10
CU10486R8YL□-□□□	6.8 $\pm$ 30%	14.0	19.0	5.40	5.40
CU10488R2YL□-□□□	8.2 $\pm$ 30%	17.0	22.0	4.85	5.00
CU1048100YL□-□□□	10.0 $\pm$ 30%	23.0	31.0	4.45	4.50
CU1048120YL□-□□□	12.0 $\pm$ 30%	26.0	35.0	4.00	3.80
CU1048150YL□-□□□	15.0 $\pm$ 30%	35.0	47.0	3.60	3.40
CU1048180YL□-□□□	18.0 $\pm$ 30%	38.0	51.0	3.20	3.10
CU1048220YL□-□□□	22.0 $\pm$ 30%	46.0	62.0	2.95	2.90
CU1048270YL□-□□□	27.0 $\pm$ 30%	57.0	77.0	2.70	2.60
CU1048330YL□-□□□	33.0 $\pm$ 30%	69.0	93.0	2.40	2.50
CU1048390YL□-□□□	39.0 $\pm$ 30%	79.0	106.0	2.30	2.25
CU1048470YL□-□□□	47.0 $\pm$ 30%	94.0	127.0	2.00	2.00
CU1048560YL□-□□□	56.0 $\pm$ 30%	124.0	160.0	1.90	1.90
CU1048680YL□-□□□	68.0 $\pm$ 30%	138.0	208.0	1.65	1.60
CU1048820YL□-□□□	82.0 $\pm$ 30%	150.0	230.0	1.50	1.45
CU1048101YL□-□□□	100.0 $\pm$ 30%	179.0	255.0	1.35	1.35
CU1048121YL□-□□□	120.0 $\pm$ 30%	213.0	305.0	1.28	1.18
CU1048151YL□-□□□	150.0 $\pm$ 30%	253.0	370.0	1.12	1.10
CU1048181YL□-□□□	180.0 $\pm$ 30%	307.0	420.0	1.04	1.00
CU1048221YL□-□□□	220.0 $\pm$ 30%	373.0	500.0	0.94	0.94
CU1048271YL□-□□□	270.0 $\pm$ 30%	491.0	675.0	0.84	0.80
CU1048331YL□-□□□	330.0 $\pm$ 30%	613.0	815.0	0.75	0.73

1. □ : Packaging information: □ Code
2. "-□□□": Reference code
3. Electrical specifications at 25°C

4. L Test Condition: 100kHz / 0.1V
5. Irms base on Temp. rise 40°C typ.
6. Isat base on $\Delta L/L_0$ =35% typ.

CU8030/8043/1038/1048/1206-L Series

■ CU1206-L Series

DWG. No.	Inductance (μ H)	RDC (m Ω)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
CU12061R5ML□-□□□	1.5 $\pm$ 20%	4.7	6.2	9.50	11.50
CU12063R9ML□-□□□	3.9 $\pm$ 20%	8.3	11.0	7.50	8.00
CU12065R6ML□-□□□	5.6 $\pm$ 20%	9.6	13.0	6.50	7.50
CU12067R6ML□-□□□	7.6 $\pm$ 20%	11.6	15.0	5.80	6.80
CU1206100ML□-□□□	10.0 $\pm$ 20%	14.9	20.0	5.20	6.00
CU1206120ML□-□□□	12.0 $\pm$ 20%	16.6	22.0	4.65	5.60
CU1206150ML□-□□□	15.0 $\pm$ 20%	20.4	27.0	4.20	5.00
CU1206180ML□-□□□	18.0 $\pm$ 20%	23.6	31.0	3.80	4.70
CU1206220ML□-□□□	22.0 $\pm$ 20%	24.5	33.0	3.50	4.50
CU1206270ML□-□□□	27.0 $\pm$ 20%	34.0	44.0	3.10	3.80
CU1206330ML□-□□□	33.0 $\pm$ 20%	39.7	52.0	2.80	3.60
CU1206390ML□-□□□	39.0 $\pm$ 20%	42.7	56.0	2.65	3.45
CU1206470ML□-□□□	47.0 $\pm$ 20%	52.5	68.0	2.30	3.10
CU1206560ML□-□□□	56.0 $\pm$ 20%	63.4	83.0	2.00	2.80
CU1206680ML□-□□□	68.0 $\pm$ 20%	70.0	91.0	1.85	2.60
CU1206820ML□-□□□	82.0 $\pm$ 20%	87.1	115.0	1.70	2.30
CU1206101ML□-□□□	100.0 $\pm$ 20%	99.1	130.0	1.50	2.15
CU1206121ML□-□□□	120.0 $\pm$ 20%	118.3	160.0	1.40	1.95
CU1206151ML□-□□□	150.0 $\pm$ 20%	159.5	210.0	1.20	1.65
CU1206181ML□-□□□	180.0 $\pm$ 20%	194.0	250.0	1.10	1.50
CU1206221ML□-□□□	220.0 $\pm$ 20%	219.0	270.0	1.00	1.40
CU1206271ML□-□□□	270.0 $\pm$ 20%	275.0	330.0	0.95	1.20
CU1206331ML□-□□□	330.0 $\pm$ 20%	305.0	360.0	0.90	1.10
CU1206391ML□-□□□	390.0 $\pm$ 20%	349.0	420.0	0.85	1.00
CU1206471ML□-□□□	470.0 $\pm$ 20%	428.0	520.0	0.75	0.95
CU1206561ML□-□□□	560.0 $\pm$ 20%	541.0	650.0	0.70	0.85
CU1206681ML□-□□□	680.0 $\pm$ 20%	677.0	780.0	0.65	0.75
CU1206821ML□-□□□	820.0 $\pm$ 20%	767.0	880.0	0.55	0.70
CU1206102ML□-□□□	1000.0 $\pm$ 20%	1005.0	1100.0	0.50	0.60

1. □ : Packaging information: □ Code

2. "-□□□": Reference code

3. Electrical specifications at 25°C

4. L Test Condition: 100kHz / 0.1V

5. Irms base on Temp. rise 40°C typ.

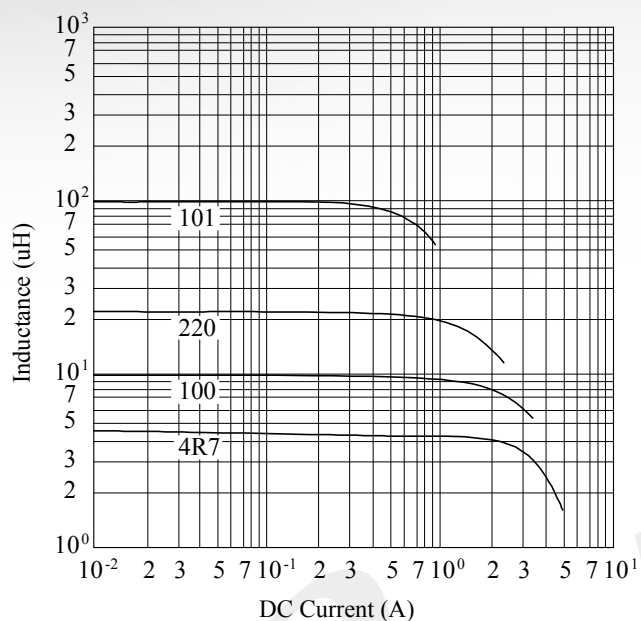
6. Isat base on $\Delta L/L0A=35\%$ typ.

CU8030/8043/1038/1048/1206-L Series

CURVE

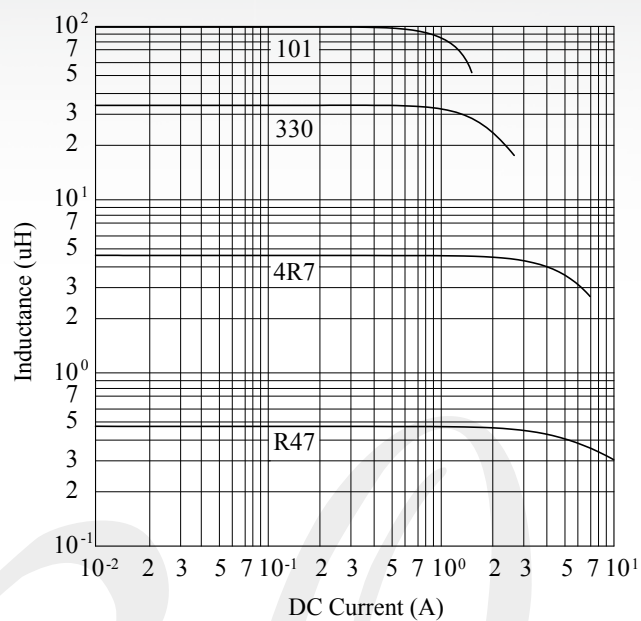
■ CU8030-L Series

@ Inductance VS. DC Current Curve



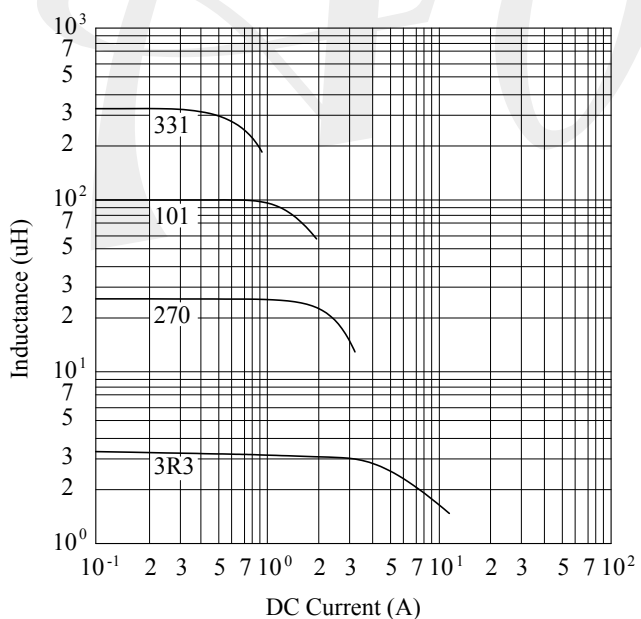
■ CU8043-L Series

@ Inductance VS. DC Current Curve



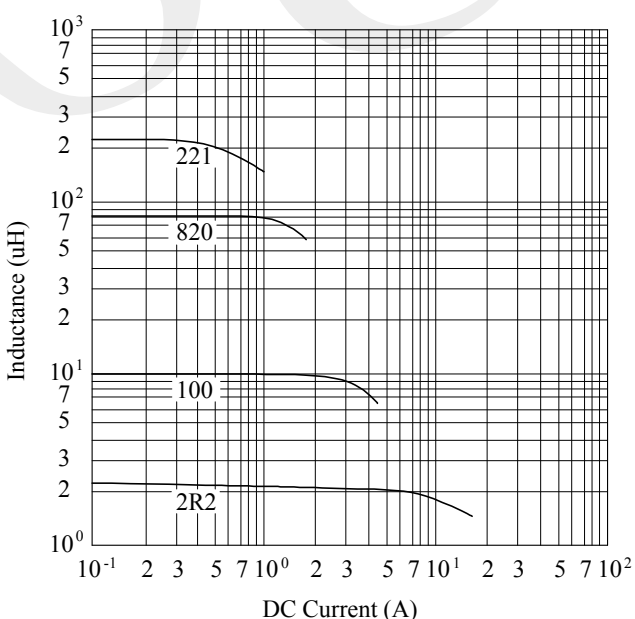
■ CU1038-L Series

@ Inductance VS. DC Current Curve



■ CU1048-L Series

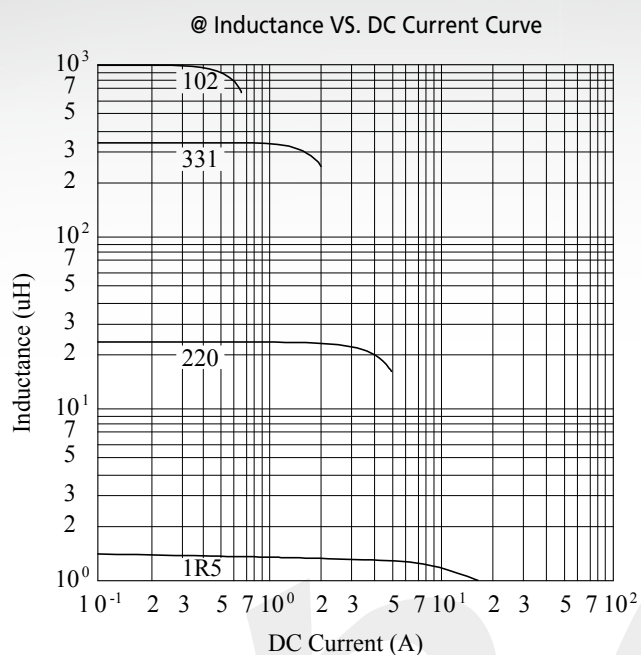
@ Inductance VS. DC Current Curve



CU8030/8043/1038/1048/1206-L Series

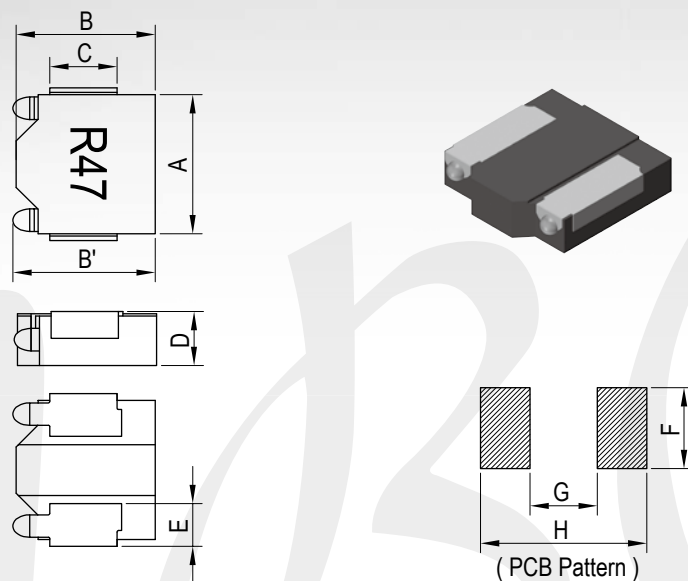
CURVE

■ CU1206-L Series



HC0312/0412/0512/0612-S Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	B'	C	D	E	F	G	H
HC0312-S	3.40±0.20	3.10±0.20	3.40 max.	1.60 ref.	1.20 max.	0.95±0.10	1.80 ref.	1.50 ref.	3.70 ref.
HC0412-S	4.40±0.20	4.10±0.20	4.40 max.	2.00 ref.	1.20 max.	1.10±0.10	2.50 ref.	1.80 ref.	4.80 ref.
HC0512-S	5.40±0.20	5.10±0.20	5.40 max.	2.50 ref.	1.20 max.	1.20±0.10	2.80 ref.	2.20 ref.	5.80 ref.
HC0612-S	7.10±0.20	6.70±0.20	7.10 max.	3.00 ref.	1.20 max.	1.65±0.10	3.50 ref.	3.70 ref.	8.10 ref.

DESCRIPTION

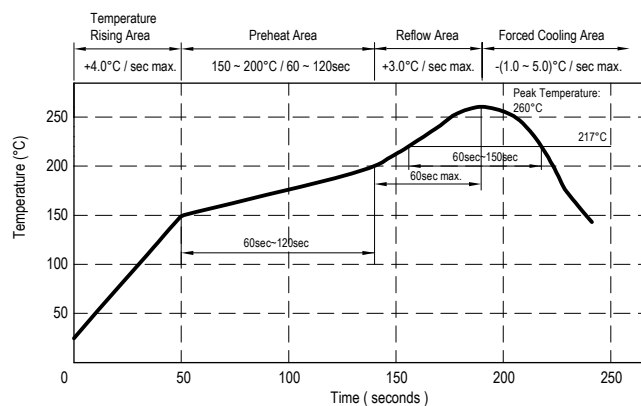
- Power molding construction
- Magnetically shielded
- Enamelled copper wire: F class
- Product weight: 0.06 (0312) / 0.10 (0412) / 0.16 (0512) / 0.27 (0612)g (ref.)
- Moisture sensitivity Level 2a
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 260°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 260°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Smartphone, PDA, Notebook, Mobile devices.
- Desktop and Server applications.
- Low profile, high current power supplies.
- Battery powered devices.
- DC/DC converters in distributed power systems.
- DC/DC converters for field programmable gate array.



HC0312/0412/0512/0612-S Series

ELECTRICAL CHARACTERISTICS

■ HC0312-S Series

DWG. No.	Inductance (μ H)	RDC (m Ω)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
HC0312R47KS□-□□□	0.47 $\pm$ 10%	15.0	18.0	6.50	6.10
HC03121R0KS□-□□□	1.00 $\pm$ 10%	43.0	51.0	4.80	3.50
HC03122R2KS□-□□□	2.20 $\pm$ 10%	61.0	71.0	2.80	2.90

■ HC0412-S Series

DWG. No.	Inductance (μ H)	RDC (m Ω)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
HC0412R47KS□-□□□	0.47 $\pm$ 10%	13.0	16.0	10.00	7.60
HC04121R0KS□-□□□	1.00 $\pm$ 10%	30.0	35.0	7.40	4.70
HC04124R7KS□-□□□	4.70 $\pm$ 10%	126.0	146.0	2.80	2.30

■ HC0512-S Series

DWG. No.	Inductance (μ H)	RDC (m Ω)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
HC0512R47KS□-□□□	0.47 $\pm$ 10%	12.0	14.0	9.90	8.30
HC05121R0KS□-□□□	1.00 $\pm$ 10%	20.0	23.0	7.00	6.50
HC05124R7KS□-□□□	4.70 $\pm$ 10%	108.0	125.0	3.70	2.70

■ HC0612-S Series

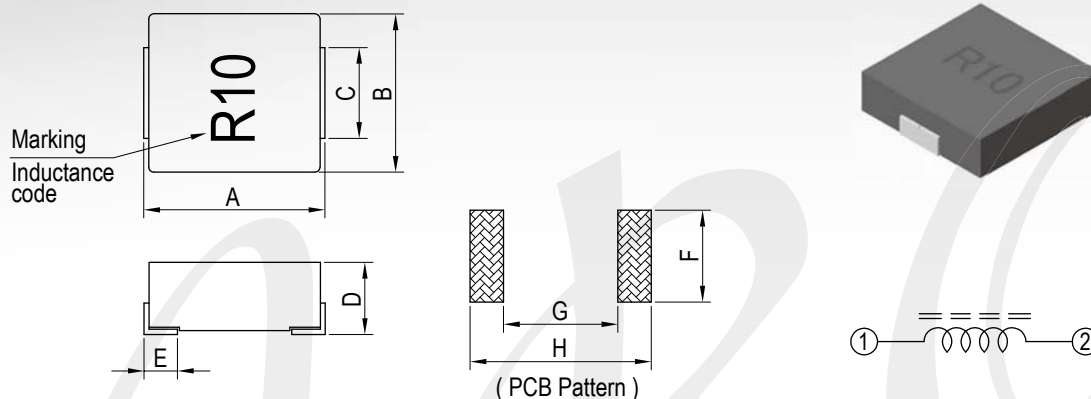
DWG. No.	Inductance (μ H)	RDC (m Ω)		Isat (A) typ.	Irms (A) typ.
		typ.	max.		
HC0612R47KS□-□□□	0.47 $\pm$ 10%	13.0	16.0	12.50	8.30
HC06121R0KS□-□□□	1.00 $\pm$ 10%	24.0	28.0	9.70	6.00
HC06124R7KS□-□□□	4.70 $\pm$ 10%	78.0	91.0	4.40	3.10

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

- L Test Condition: 100kHz / 1V
- Isat base on $\Delta L/L0A=30\%$ typ. (Approximately transient current)
- Irms base on Temp. rise 40°C typ.

HP0603-P/0603-2/0604-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H
HP0603-P	7.20±0.30	6.50±0.20	3.00±0.30	3.10 max.	1.70±0.50	3.40 typ.	3.70 typ.	7.40 typ.
HP0603-2	7.20±0.30	6.50±0.20	3.00±0.30	3.00 max.	1.70±0.50	3.40 typ.	3.70 typ.	7.40 typ.
HP0604-L	7.20±0.30	6.50±0.20	3.00±0.30	4.00 max.	1.70±0.50	3.40 typ.	3.70 typ.	7.40 typ.

DESCRIPTION

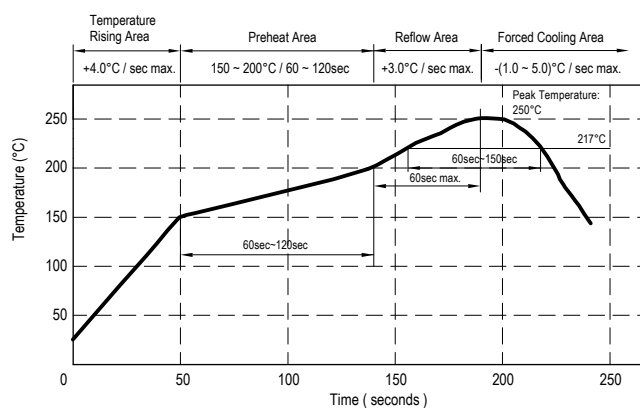
- Powder molding construction
- Magnetically shielded
- Enamelled copper wire: H class
- Product weight: 0.80 (0603-P) / 0.80 (0603-2) / 0.98 (0604-L)g (ref.)
- Moisture sensitivity Level 2a (0603-2), 1(0603-P), 3 (0604-L)
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -55°C~ +125°C
- Operating temp.: -55°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with metal powder molded onto coil in low leakage field.
- Iron powder molded with high saturation current capability.
- Recommended for reflow soldering PCB assembly.
- Lower inductance available for low voltage high current switching regulator circuit.



HP0603-P/0603-2/0604-L Series

■ HP0603-P Series

DWG. No.	Inductance L (μ H)	Isat (A) typ.	Irms (A) typ.	RDC (m Ω)	
				max.	typ.
HP0603R10MP□-□□□	0.10 $\pm$ 20%	38.0	32.5	1.7	1.5
HP0603R15MP□-□□□	0.15 $\pm$ 20%	32.0	28.0	2.0	1.8
HP0603R22MP□-□□□	0.22 $\pm$ 20%	26.0	23.0	2.4	2.2
HP0603R33MP□-□□□	0.33 $\pm$ 20%	22.5	20.0	3.4	3.0
HP0603R47MP□-□□□	0.47 $\pm$ 20%	20.0	17.5	4.5	4.2
HP0603R56MP□-□□□	0.56 $\pm$ 20%	19.0	16.0	5.0	4.5
HP0603R68MP□-□□□	0.68 $\pm$ 20%	19.0	15.5	5.0	4.5
HP0603R82MP□-□□□	0.82 $\pm$ 20%	16.0	13.0	6.6	5.5
HP06031R0MP□-□□□	1.00 $\pm$ 20%	13.0	11.0	7.0	6.8
HP06031R5MP□-□□□	1.50 $\pm$ 20%	12.0	10.0	10.0	9.5
HP06032R2MP□-□□□	2.20 $\pm$ 20%	10.5	8.0	20.0	17.0
HP06033R3MP□-□□□	3.30 $\pm$ 20%	8.5	7.0	26.0	25.0
HP06034R7MP□-□□□	4.70 $\pm$ 20%	7.0	5.5	35.0	31.0
HP06035R6MP□-□□□	5.60 $\pm$ 20%	6.5	5.0	45.0	42.0
HP06036R8MP□-□□□	6.80 $\pm$ 20%	6.0	4.5	55.0	52.0
HP06038R2MP□-□□□	8.20 $\pm$ 20%	5.6	4.5	60.0	57.0
HP0603100MP□-□□□	10.00 $\pm$ 20%	4.1	3.5	65.0	63.0

■ HP0603-2 Series

DWG. No.	Inductance L (μ H)	Isat (A) typ.	Irms (A) typ.	RDC (m Ω)	
				max.	typ.
HP0603R10M2□-□□□	0.10 $\pm$ 20%	60.0	32.0	2.0	1.5
HP0603R15M2□-□□□	0.15 $\pm$ 20%	52.0	26.0	2.5	2.0
HP0603R22M2□-□□□	0.22 $\pm$ 20%	40.0	23.0	3.0	2.5
HP0603R33M2□-□□□	0.33 $\pm$ 20%	30.0	20.0	4.0	3.5
HP0603R47M2□-□□□	0.47 $\pm$ 20%	26.0	17.0	4.5	4.0
HP0603R56M2□-□□□	0.56 $\pm$ 20%	19.0	16.0	5.5	5.0
HP0603R68M2□-□□□	0.68 $\pm$ 20%	25.0	15.0	5.5	5.0
HP0603R82M2□-□□□	0.82 $\pm$ 20%	24.0	13.0	8.0	7.0
HP06031R0M2□-□□□	1.00 $\pm$ 20%	22.0	11.0	10.0	9.0
HP06031R5M2□-□□□	1.50 $\pm$ 20%	18.0	9.0	15.0	14.0
HP06032R2M2□-□□□	2.20 $\pm$ 20%	14.0	8.0	20.0	18.0
HP06033R3M2□-□□□	3.30 $\pm$ 20%	13.5	6.0	30.0	28.0
HP06034R7M2□-□□□	4.70 $\pm$ 20%	10.0	5.5	40.0	37.0
HP06036R8M2□-□□□	6.80 $\pm$ 20%	8.0	4.5	60.0	54.0
HP06038R2M2□-□□□	8.20 $\pm$ 20%	7.5	4.0	68.0	64.0
HP0603100M2□-□□□	10.00 $\pm$ 20%	7.0	3.0	105.0	102.0

1. □ : Packaging information: □ Code
2. "- □□□": Reference code
3. Electrical specifications at 25°C

4. Measured frequency of inductance is 100kHz / 0.25V
5. Isat base on inductance drop 20% typ. of L value at 20°C
6. Irms base on temp. rise 40°C typ.

HP0603-P/0603-2/0604-L Series

■ HP0604-L Series

DWG. No.	Inductance L (μ H)	Isat (A) typ.	Irms (A) typ.	RDC (m Ω)	
				max.	typ.
HP0604R56ML□-□□□	0.56 $\pm$ 20%	11.0	18.0	4.4	3.9
HP0604R68ML□-□□□	0.68 $\pm$ 20%	10.5	16.5	5.0	4.6
HP0604R82ML□-□□□	0.82 $\pm$ 20%	12.0	15.0	5.5	5.1
HP06041R0ML□-□□□	1.00 $\pm$ 20%	13.5	12.0	7.2	6.6
HP06041R5ML□-□□□	1.50 $\pm$ 20%	11.0	11.0	10.0	9.4
HP06042R2ML□-□□□	2.20 $\pm$ 20%	9.0	9.0	15.5	14.0
HP06043R3ML□-□□□	3.30 $\pm$ 20%	7.0	6.5	23.0	22.0
HP06044R7ML□-□□□	4.70 $\pm$ 20%	6.5	6.0	33.5	32.0
HP06045R6ML□-□□□	5.60 $\pm$ 20%	6.0	5.5	38.0	36.0
HP06046R8ML□-□□□	6.80 $\pm$ 20%	5.5	5.0	49.5	46.0
HP06048R2ML□-□□□	8.20 $\pm$ 20%	5.0	4.5	50.5	47.0
HP0604100ML□-□□□	10.00 $\pm$ 20%	4.0	4.0	78.5	75.0

1. □ : Packaging information: □ Code

2. "-□□□": Reference code

3. Electrical specifications at 25°C

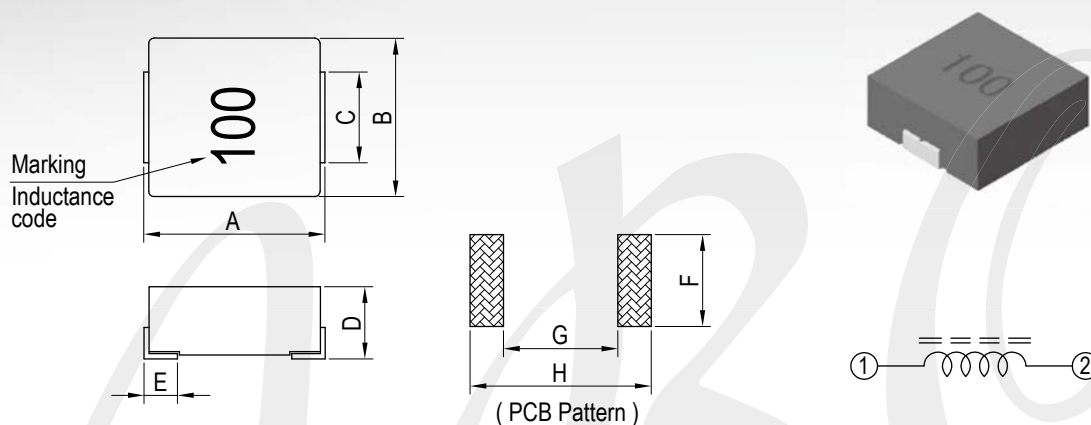
4. Measured frequency of inductance is 100kHz / 0.25V

5. Isat base on inductance drop 20% typ. of L value at 20°C

6. Irms base on temp. rise 40°C typ.

HP1004-P/1004-L/1004-2 Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H
HP1004-P	11.30±0.40	10.50±0.30	3.50±0.30	4.00 max.	1.70±0.50	4.50 typ.	6.00 typ.	13.0 typ.
HP1004-L	11.30±0.40	10.50±0.30	3.50±0.30	4.00 max.	1.70±0.50	4.50 typ.	6.00 typ.	13.0 typ.
HP1004-2	11.30±0.40	10.50±0.30	3.50±0.30	4.00 max.	1.70±0.50	4.50 typ.	6.00 typ.	13.0 typ.

DESCRIPTION

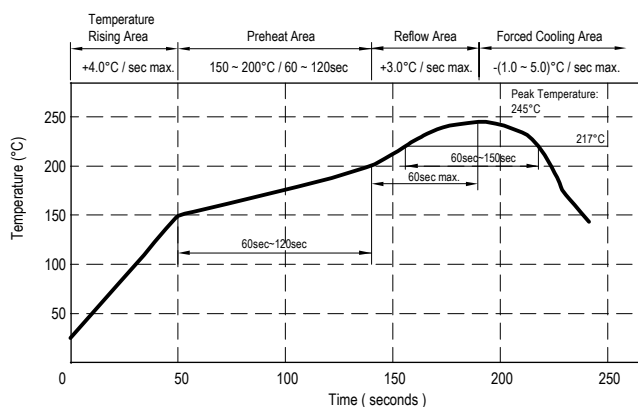
- Powder molding construction
- Magnetically shielded
- Enamelled copper wire: H class
- Product weight: 2.55g (ref.)
- Moisture sensitivity Level 2a (1004-2) / 3 (1004-L) / 1 (1004-P)
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Close magnetic circuit with metal powder molded onto coil in low leakage field.
- Iron powder molded with high saturation current capability.
- Recommended for reflow soldering PCB assembly.
- Lower inductance available for low voltage high current switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C (HP1004-P)
-55°C ~ +125°C
- Operating temp.: -40°C ~ +125°C (HP1004-P)
-55°C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C. 10 secs.
- Recommended IR Reflow:
Peak Temp: 245°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



HP1004-P/1004-L/1004-2 Series

ELECTRICAL CHARACTERISTICS

■ HP1004-P Series

DWG. No.	Inductance L (μH)	Isat (A) typ.	Irms (A) typ.	RDC (mΩ)	
				max.	typ.
HP1004R33MP□-□□□	0.33±20%	35.0	30.0	2.2	2.0
HP1004R47MP□-□□□	0.47±20%	31.0	30.0	2.5	2.2
HP1004R56MP□-□□□	0.56±20%	26.0	28.0	3.1	2.5
HP1004R68MP□-□□□	0.68±20%	25.0	27.0	3.6	3.2
HP1004R82MP□-□□□	0.82±20%	24.0	26.0	4.3	3.5
HP10041R0MP□-□□□	1.00±20%	23.0	25.0	4.6	4.0
HP10041R5MP□-□□□	1.50±20%	18.0	19.0	5.5	5.0
HP10041R8MP□-□□□	1.80±20%	16.0	17.0	6.5	6.0
HP10042R2MP□-□□□	2.20±20%	14.0	15.0	8.2	7.0
HP10043R3MP□-□□□	3.30±20%	12.5	13.5	10.5	9.5
HP10044R7MP□-□□□	4.70±20%	10.0	10.0	15.5	14.5
HP10046R8MP□-□□□	6.80±20%	8.0	9.0	24.5	21.5
HP10048R2MP□-□□□	8.20±20%	7.5	7.5	35.0	30.0
HP1004100MP□-□□□	10.00±20%	7.0	7.0	41.0	36.0
HP1004150MP□-□□□	15.00±20%	5.0	5.0	65.0	60.0
HP1004220MP□-□□□	22.00±20%	4.5	4.5	80.0	75.0
HP1004470MP□-□□□	47.00±20%	3.0	4.5	155.0	140.0
HP1004101MP□-□□□	100.00±20%	2.0	2.5	280.0	250.0

■ HP1004-L Series

DWG. No.	Inductance L (μH)	Isat (A) typ.	Irms (A) typ.	RDC (mΩ)	
				max.	typ.
HP10041R8ML□-□□□	1.80±20%	16.0	17.0	5.0	4.5
HP10042R0ML□-□□□	2.00±20%	14.0	16.0	6.0	5.2
HP10044R7ML□-□□□	4.70±20%	7.6	10.0	14.5	13.0
HP10046R8ML□-□□□	6.80±20%	7.5	9.0	19.5	17.5
HP1004100ML□-□□□	10.00±20%	7.0	8.0	30.5	28.0
HP1004150ML□-□□□	15.00±20%	6.0	6.0	41.5	37.5
HP1004220ML□-□□□	22.00±20%	4.5	5.0	66.0	60.5
HP1004470ML□-□□□	47.00±20%	3.0	3.0	190.0	175.0
HP1004101ML□-□□□	100.00±20%	2.0	2.5	270.0	250.0

■ HP1004-2 Series

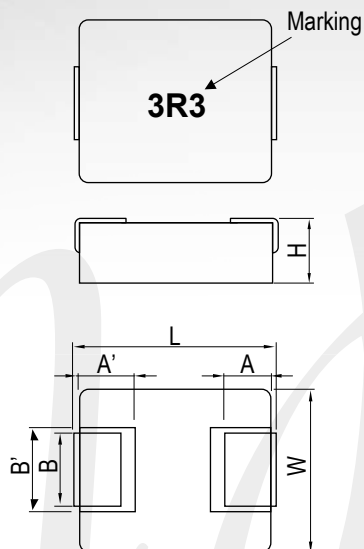
DWG. No.	Inductance L (μH)	Isat (A) typ.	Irms (A) typ.	RDC (mΩ)	
				max.	typ.
HP10041R5M2□-□□□	1.50±20%	27.5	15.0	6.0	5.5
HP10042R2M2□-□□□	2.20±20%	25.5	12.0	9.0	8.5
HP10043R3M2□-□□□	3.30±20%	18.5	10.0	12.0	11.0
HP10044R7M2□-□□□	4.70±20%	17.0	9.5	16.5	15.0
HP10045R6M2□-□□□	5.60±20%	16.0	8.5	19.5	18.0
HP10046R8M2□-□□□	6.80±20%	13.5	8.0	23.5	21.5
HP1004100M2□-□□□	10.00±20%	12.0	6.5	36.5	33.5

- : Packaging information: □ Code
- "- □□□": Reference code
- Electrical specifications at 25°C

- Measured frequency of inductance is 100 kHz / 0.25V
- Isat base on inductance drop 20% typ. of L value at 20°C
- Irms base on temp. rise 40°C typ.

CIP0520/0530/0630 HI & LR Series

CONFIGURATION & DIMENSIONS



HI series	3R3
LR series	LR 3R3

Unit: mm

Series	L	W	H	A	A'	B	B'
CIP0520	5.60±0.35	5.20±0.20	2.00±0.10	1.00±0.40	1.50±0.10	2.00±0.30	2.50±0.20
CIP0530	5.60±0.35	5.20±0.20	3.00 max.	1.00±0.40	1.50±0.10	2.00±0.30	2.50±0.20
CIP0630	7.20±0.30	6.65±0.20	3.00 max.	1.60±0.40	2.00±0.10	3.00±0.30	3.40±0.20

DESCRIPTION

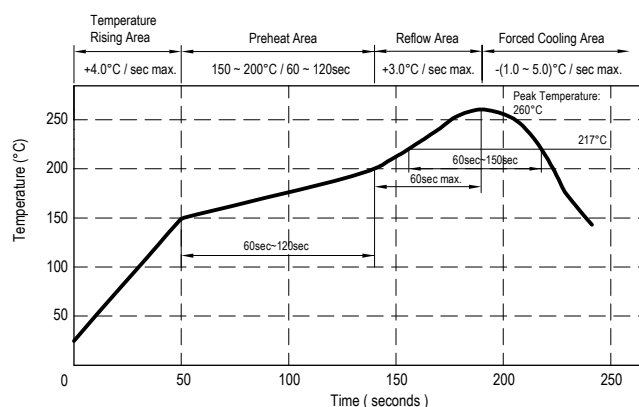
- Shielded molding construction
- Enamelled copper wire aircoil inside
- Comply with RoHS requirement
- Product weight: 0.31 (0520) / 0.49 (0530) / 0.82 (0630)g (ref.)

FEATURES & APPLICATION

- Close magnetic circuit with metal powder molded onto coil in low leakage field.
- Iron powder molded with high saturation current capability.
- Recommended for reflow soldering PCB assembly.
- Lower inductance available for low voltage high current switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp. -10 ~ +40°C
Humidity: 30 ~ 70% R.H.
- Operating temp.: -55°C ~ +125°C (Temp. rise included)
- Recommended IR reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



CIP0520/0530/0630 HI & LR Series

ELECTRICAL CHARACTERISTICS

■ CIP-HI Series

DWG. No.	Inductance (μ H)	Percent Tolerance	SRF (MHz) Typ.	RDC ($m\Omega$)		Isat (A)	Irms (A)
				typ.	max.		
CIP0520HI100□-□□	10.00	M	16	140.0	150.0	4.0	2.3
CIP0530HIR60□-□□	0.60	M	84	11.0	12.0	18.0	9.8
CIP0530HIR68□-□□	0.68	M	63	11.0	12.0	16.0	9.5
CIP0530HIR82□-□□	0.82	M	53	14.0	15.0	12.5	9.0
CIP0530HI1R0□-□□	1.00	M	52	13.0	14.0	14.0	7.0
CIP0530HI1R2□-□□	1.20	M	48	15.5	16.5	13.0	6.8
CIP0530HI1R5□-□□	1.50	M	44	20.0	25.0	10.0	6.0
CIP0530HI2R2□-□□	2.20	M	30	29.0	35.0	9.0	5.5
CIP0630HI1R0□-□□	1.00	M	40	9.0	10.0	20.5	11.0
CIP0630HI1R5□-□□	1.50	M	35	14.0	15.0	17.0	9.0
CIP0630HI2R2□-□□	2.20	M	29	18.0	20.0	14.0	8.0
CIP0630HI3R3□-□□	3.30	M	22	28.0	30.0	13.5	6.8
CIP0630HI4R7□-□□	4.70	M	17	37.0	40.0	10.0	5.5
CIP0630HI6R8□-□□	6.80	M	15	54.0	60.0	8.0	4.5
CIP0630HI8R2□-□□	8.20	M	16	64.0	68.0	7.5	4.0
CIP0630HI100□-□□	10.00	M	14	102.0	105.0	7.0	3.0

■ CIP-LR Series

DWG. No.	Inductance (μ H)	Percent Tolerance	SRF(MHz) Typ.	RDC ($m\Omega$)		Isat (A)	Irms (A)
				typ.	max.		
CIP0520LR1R0□-□□	1.00	M	65	16.8	18.5	8.0	7.5
CIP0520LR1R5□-□□	1.50	M	46	19.0	24.0	6.8	5.8
CIP0520LR2R2□-□□	2.20	M	38	33.0	36.0	5.0	5.5
CIP0520LR3R3□-□□	3.30	M	34	45.0	50.0	4.2	4.5
CIP0520LR4R7□-□□	4.70	M	27	52.0	58.0	3.7	3.7
CIP0520LR5R6□-□□	5.60	M	22	65.0	75.0	3.3	3.5
CIP0520LR100□-□□	10.00	M	17	130.0	145.0	2.1	3.0
CIP0530LR1R5□-□□	1.50	M	44	18.5	20.0	7.0	8.0
CIP0530LR2R2□-□□	2.20	M	38	24.0	26.0	5.5	7.0
CIP0530LR3R3□-□□	3.30	M	28	32.0	36.0	5.0	6.5
CIP0530LR4R7□-□□	4.70	M	25	54.0	60.0	4.5	4.5
CIP0530LR5R6□-□□	5.60	M	19	55.0	65.0	4.0	4.5
CIP0530LR6R8□-□□	6.80	M	-	74.0	85.0	3.5	3.7
CIP0530LR100□-□□	10.00	M	-	110.0	125.0	2.5	3.0
CIP0630LRR47□-□□	0.47	M	79	3.5	4.1	20.0	16.5
CIP0630LRR56□-□□	0.56	M	61	4.7	5.0	18.0	15.5
CIP0630LRR68□-□□	0.68	M	68	6.0	6.5	17.0	14.0
CIP0630LRR82□-□□	0.82	M	49	7.0	7.5	16.0	12.5
CIP0630LR1R0□-□□	1.00	M	52	8.5	9.0	15.0	12.0
CIP0630LR1R5□-□□	1.50	M	30	10.5	12.0	14.0	10.0
CIP0630LR2R2□-□□	2.20	M	30	16.0	18.5	10.0	8.0
CIP0630LR3R3□-□□	3.30	M	24	25.0	28.0	10.0	6.5
CIP0630LR4R7□-□□	4.70	M	19	32.5	35.0	6.5	5.5
CIP0630LR5R6□-□□	5.60	M	17	32.5	35.5	5.0	6.0
CIP0630LR6R8□-□□	6.80	M	16	54.0	60.0	6.0	4.5
CIP0630LR100□-□□	10.00	M	13	62.0	68.0	5.5	4.0
CIP0630LR150□-□□	15.00	M	12	110.0	120.0	5.0	3.0
CIP0630LR220□-□□	22.00	M	8	152.0	167.0	2.5	2.5

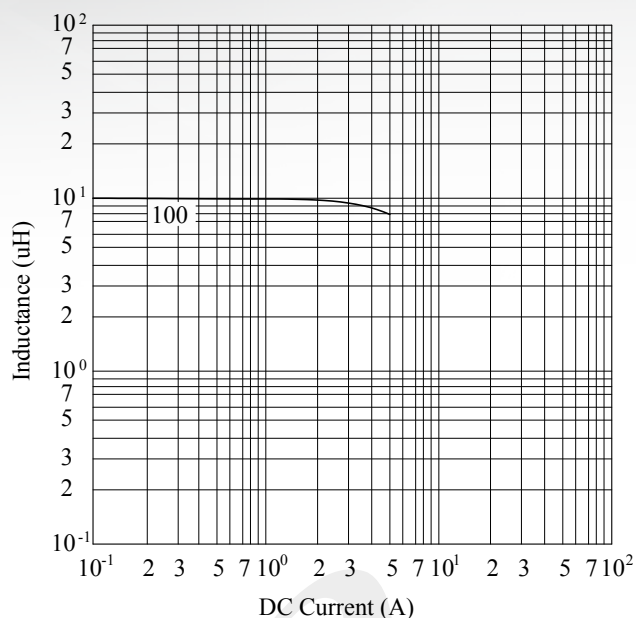
1. Inductance is measured in HP-4284A Precision LCR meter. or equivalent.
2. RDC is measured in HP 4338B mill ohm meter. or equivalent.
3. Isat : base on inductance change ($\Delta L/L_0$: LR $\leq$ -20% typical / HI $\leq$ -20% typical)
4. I rms: base on temperature rise (ΔT : 40°C TYP.)

CIP0520/0530/0630 HI & LR Series

CURVE

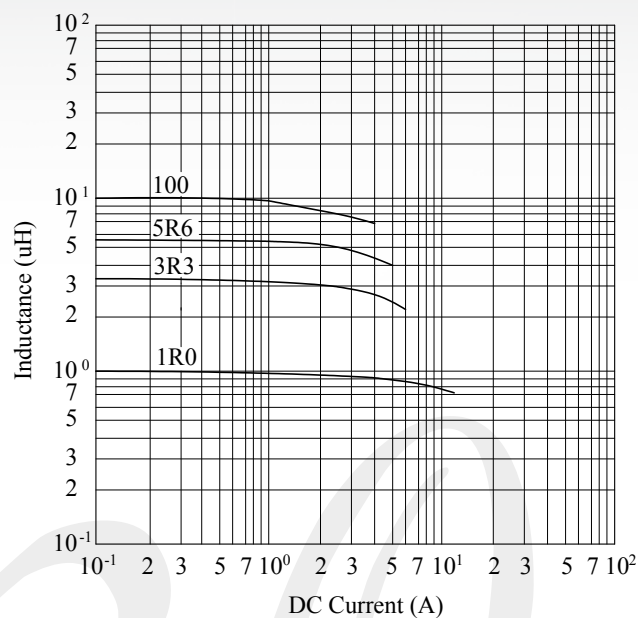
■ CIP0520 HI Series

@ Inductance VS. DC Current Curve



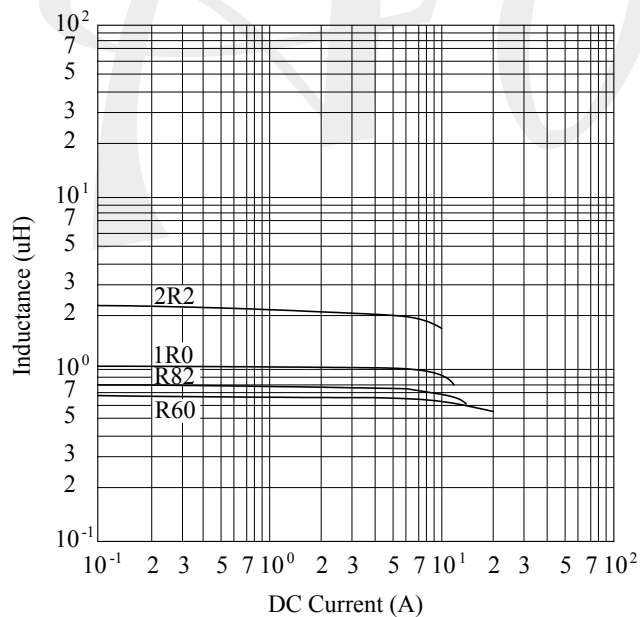
■ CIP0520 LR Series

@ Inductance VS. DC Current Curve



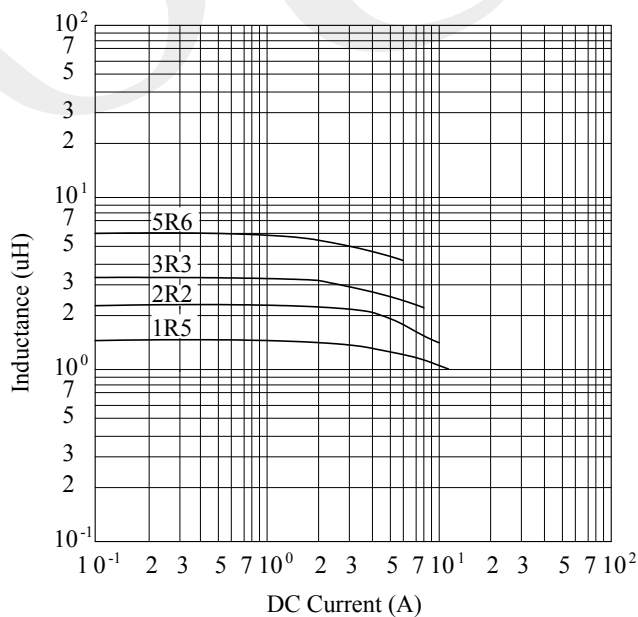
■ CIP0530 HI Series

@ Inductance VS. DC Current Curve



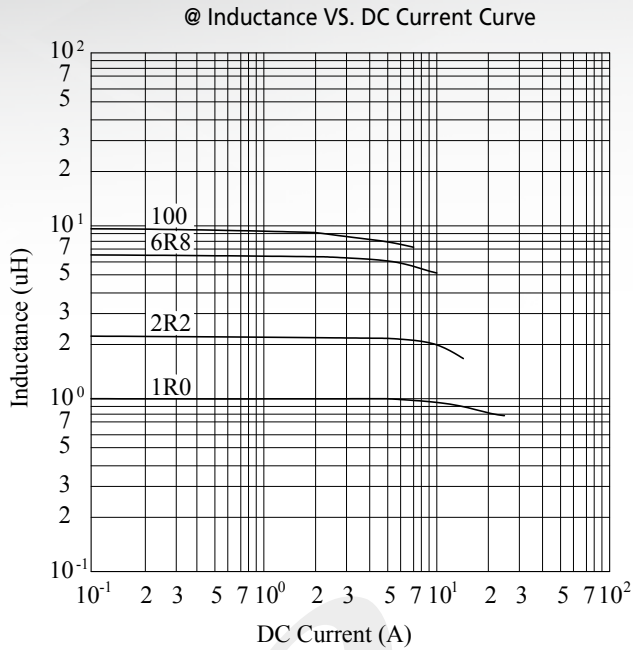
■ CIP0530 LR Series

@ Inductance VS. DC Current Curve

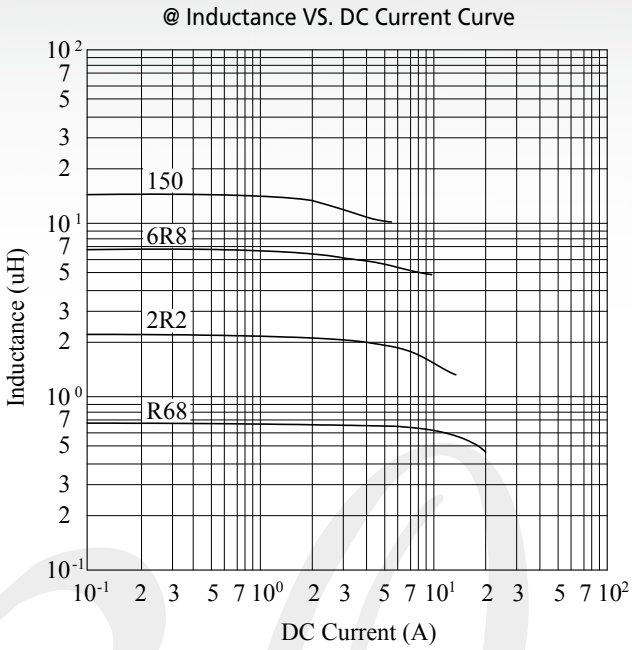


CIP0520/0530/0630 HI & LR Series

■ CIP0630 HI Series

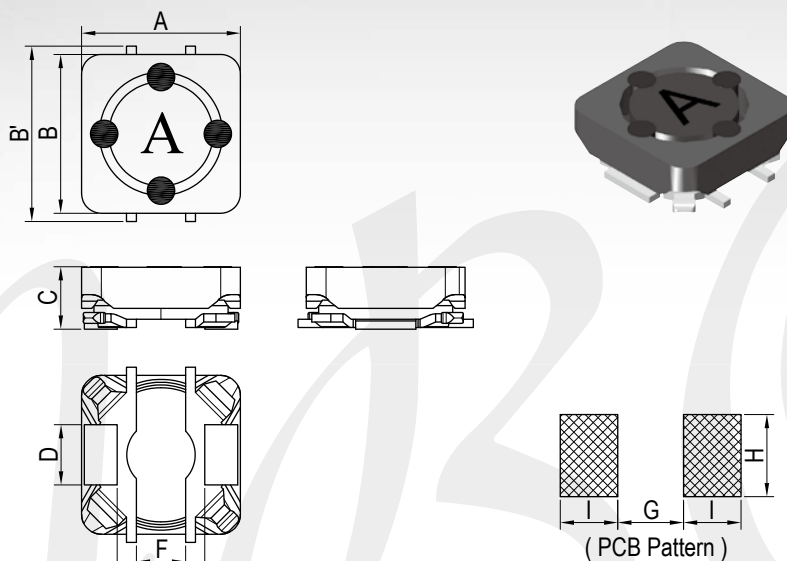


■ CIP0630 LR Series



CS3012/3015-S Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	B'	C	D	E	F	G	H	I
CS3012-S	2.90±0.1	2.90±0.1	3.20 max.	1.20 max.	1.10 typ.	1.60 typ.	0.90 ref.	1.20 ref.	1.50 ref.	1.05 ref.
CS3015-S	2.90±0.1	2.90±0.1	3.20 max.	1.50 max.	1.10 typ.	1.60 typ.	0.90 ref.	1.20 ref.	1.50 ref.	1.05 ref.

DESCRIPTION

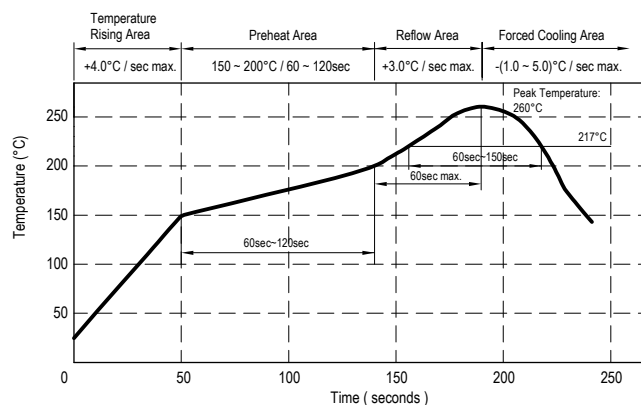
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: H class
- Product weight: 0.04g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density PCB assembly.
- Recommended for reflow soldering Pcb assembly.
- Normal inductance available for low power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 260°C.10 secs.
- Recommended IR Reflow:
Peak Temp: 260°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.



CS3012/3015-S Series

ELECTRICAL CHARACTERISTICS

■ CS3012-S Series

DWG. No.	Inductance (μH)	RDC (mΩ)		SRF (MHz) typ.	Isat (mA) typ.	Irms (mA) typ.	Marking
		typ.	max.				
CS30121R0YS□-□□□	1.0±30%	77.0	100.0	160.0	1500	1500	A
CS30122R2YS□-□□□	2.2±30%	146.0	175.0	100.0	1000	1100	C
CS30123R3YS□-□□□	3.3±30%	220.0	265.0	80.0	850	900	E
CS30124R7YS□-□□□	4.7±30%	280.0	330.0	64.0	700	800	F
CS30126R8YS□-□□□	6.8±30%	400.0	480.0	50.0	550	650	G
CS3012100MS□-□□□	10.0±20%	650.0	780.0	45.0	450	500	H
CS3012150MS□-□□□	15.0±20%	800.0	950.0	40.0	400	450	I
CS3012220MS□-□□□	22.0±20%	1350.0	1590.0	27.5	300	330	J

■ CS3015-S Series

DWG. No.	Inductance (μH)	RDC (mΩ)		SRF (MHz) typ.	Isat (mA) typ.	Irms (mA) typ.	Marking
		typ.	max.				
CS30151R0YS□-□□□	1.0±30%	55.0	70.0	145.0	1650	1900	A
CS30152R2YS□-□□□	2.2±30%	105.0	125.0	100.0	1100	1300	C
CS30153R3YS□-□□□	3.3±30%	135.0	160.0	75.0	900	1100	E
CS30154R7YS□-□□□	4.7±30%	170.0	200.0	67.0	800	900	F
CS30156R8YS□-□□□	6.8±30%	310.0	375.0	50.0	650	700	G
CS3015100MS□-□□□	10.0±20%	370.0	450.0	40.0	550	600	H
CS3015150MS□-□□□	15.0±20%	570.0	685.0	30.0	450	500	I
CS3015220MS□-□□□	22.0±20%	755.0	900.0	25.0	350	400	J
CS3015330MS□-□□□	33.0±20%	1220.0	1465.0	22.0	300	300	K
CS3015470MS□-□□□	47.0±20%	2000.0	2400.0	17.5	250	250	L

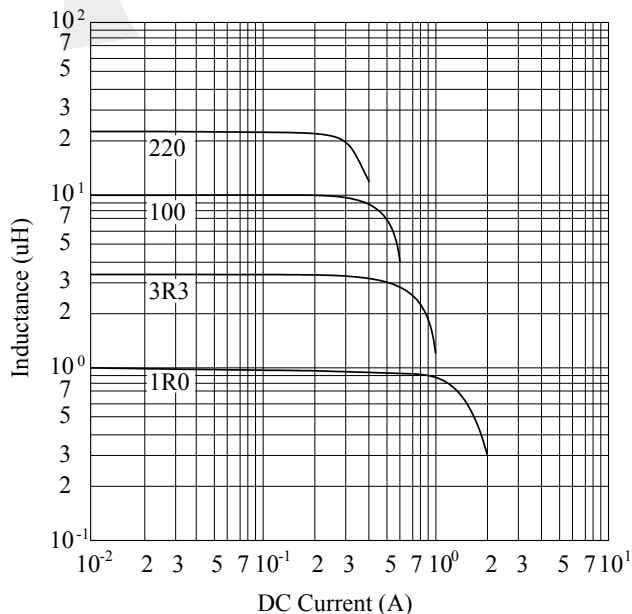
1. □ : Packaging information: □ Code
2. "- □□□": Reference code
3. Electrical specifications at 25°C

4. Inductance Test Condition.: 100kHz / 0.1V
5. Isat base on $\Delta L/L0A=35\%$ typ. (Approximately transient current)
6. Irms base on Temp. rise 40°C typ.

CURVE

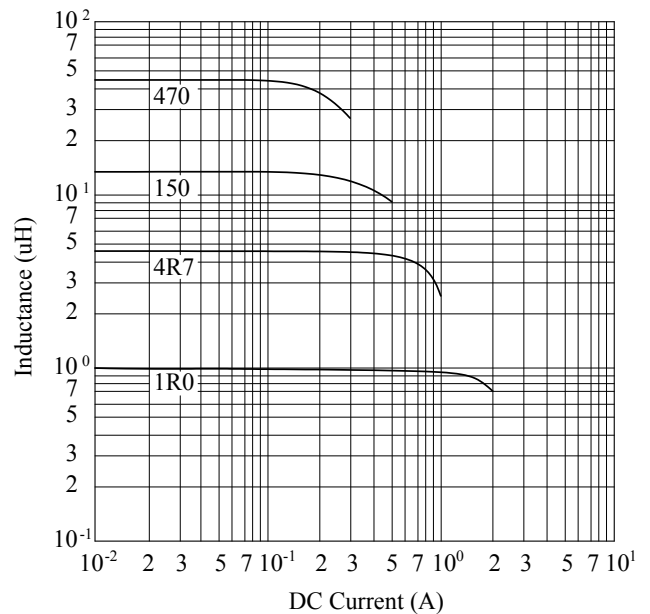
■ CS3012-S Series

@ Inductance VS. DC Current Curve



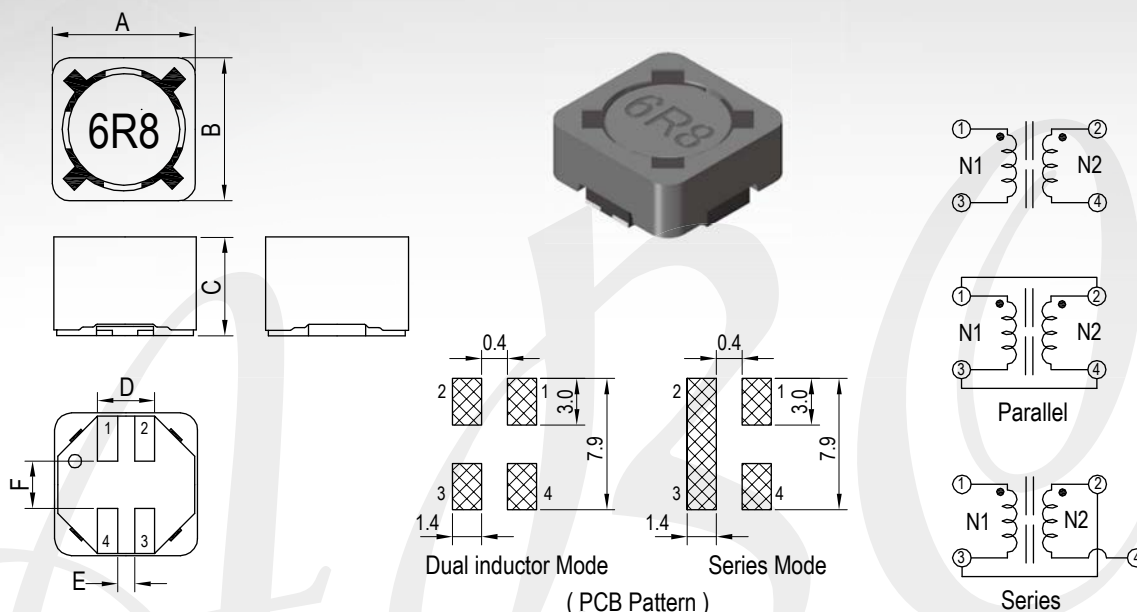
■ CS3015-S Series

@ Inductance VS. DC Current Curve



BF0703/0704-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F
BF0703-L	7.60 max.	7.60 max.	3.40±0.20	2.60 typ.	1.00 typ.	2.70 typ.
BF0704-L	7.60 max.	7.60 max.	4.40±0.20	2.60 typ.	1.00 typ.	2.70 typ.

DESCRIPTION

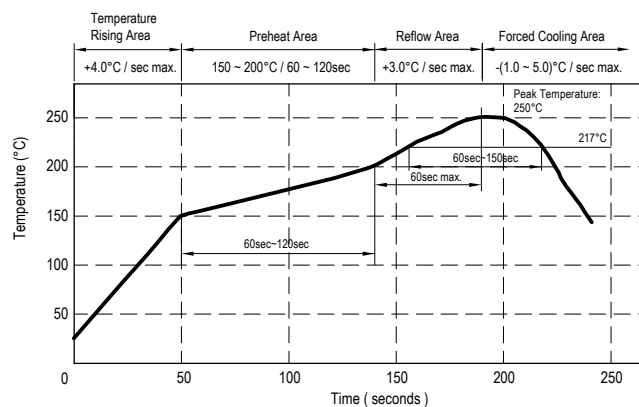
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: H class
- Product weight: 0.59 (0703) / 0.85 (0704)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Drum ferrite+ shielded ring make close magnetic circuit in low leakage field for high density PCB assembly. Double coil parallel connected with low resistance & higher current rating.
- Engineering plastic substrate base with tinned copper terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.



BF0703/0704-L Series

ELECTRICAL CHARACTERISTICS

■ BF0703-L Series

DWG. No.	Parallel Ratings				Series Ratings			
	Inductance (μ H)	RDC (m Ω) max.	I _{peak} (A) typ.	I _{rms} (A) typ.	Inductance (μ H)	RDC (m Ω) max.	I _{peak} (A) typ.	I _{rms} (A) typ.
BF0703R33ML□-□□□	0.33 $\pm$ 20%	9.2	14.4	6.19	1.34 $\pm$ 20%	40	7.18	3.100
BF07031R0ML□-□□□	1.00 $\pm$ 20%	13.5	7.97	5.25	3.86 $\pm$ 20%	72	3.99	2.630
BF07031R5ML□-□□□	1.50 $\pm$ 20%	19.1	6.52	4.64	5.83 $\pm$ 20%	110	3.26	2.320
BF07032R2ML□-□□□	2.20 $\pm$ 20%	21.7	5.52	4.11	8.13 $\pm$ 20%	132	2.76	2.060
BF07033R3ML□-□□□	3.30 $\pm$ 20%	31.6	4.22	3.31	13.60 $\pm$ 20%	182	2.11	1.660
BF07034R7ML□-□□□	4.70 $\pm$ 20%	40.6	3.78	3.09	17.10 $\pm$ 20%	242	1.89	1.550
BF07036R8ML□-□□□	6.80 $\pm$ 20%	65.8	3.12	2.55	25.50 $\pm$ 20%	285	1.56	1.280
BF07038R2ML□-□□□	8.20 $\pm$ 20%	77.2	2.66	2.19	34.10 $\pm$ 20%	306	1.33	1.100
BF0703100ML□-□□□	10.00 $\pm$ 20%	82.6	2.47	2.08	39.60 $\pm$ 20%	342	1.24	1.040
BF0703150ML□-□□□	15.00 $\pm$ 20%	119.0	2.05	1.83	59.60 $\pm$ 20%	470	1.03	0.916
BF0703220ML□-□□□	22.00 $\pm$ 20%	150.0	1.67	1.62	89.50 $\pm$ 20%	620	0.83	0.811
BF0703330ML□-□□□	33.00 $\pm$ 20%	240.0	1.35	1.31	140.50 $\pm$ 20%	1000	0.68	0.653
BF0703470ML□-□□□	47.00 $\pm$ 20%	338.0	1.14	1.08	194.20 $\pm$ 20%	1280	0.57	0.542
BF0703680ML□-□□□	68.00 $\pm$ 20%	507.0	0.96	0.89	289.30 $\pm$ 20%	1920	0.48	0.444
BF0703820ML□-□□□	82.00 $\pm$ 20%	610.0	0.89	0.86	324.70 $\pm$ 20%	2280	0.44	0.430
BF0703101ML□-□□□	100.00 $\pm$ 20%	715.0	0.79	0.73	397.60 $\pm$ 20%	2640	0.39	0.367
BF0703151ML□-□□□	150.00 $\pm$ 20%	986.0	0.65	0.58	608.20 $\pm$ 20%	3630	0.32	0.289
BF0703221ML□-□□□	220.00 $\pm$ 20%	1480.0	0.53	0.52	922.60 $\pm$ 20%	5500	0.27	0.260
BF0703331ML□-□□□	330.00 $\pm$ 20%	2160.0	0.44	0.42	1335.00 $\pm$ 20%	8250	0.22	0.211
BF0703471ML□-□□□	470.00 $\pm$ 20%	2820.0	0.37	0.35	1859.00 $\pm$ 20%	11220	0.18	0.173
BF0703681ML□-□□□	680.00 $\pm$ 20%	3960.0	0.31	0.29	2930.00 $\pm$ 20%	16170	0.15	0.143
BF0703821ML□-□□□	820.00 $\pm$ 20%	5010.0	0.28	0.27	3559.00 $\pm$ 20%	20070	0.14	0.134
BF0703102ML□-□□□	1000.00 $\pm$ 20%	6110.0	0.25	0.26	4120.00 $\pm$ 20%	24420	0.13	0.128

1. □: Packaging information: □ Code

2. "-□□□": Reference code

3. Electrical specifications at 25°C

4. L Test Freq.: 100kHz / 0.25V

5. I_{rms} base on Temp. rise 40°C typ.

6. I_{peak}: Approximately transient current is 30% typ.

BF0703/0704-L Series

■ BF0704-L Series

DWG. No.	Parallel Ratings				Series Ratings			
	Inductance (μH)	RDC (mΩ) max.	Isat (A) typ.	Irms (A) typ.	Inductance (μH)	RDC (mΩ) max.	Isat (A) typ.	Irms (A) typ.
BF0704100ML □-□□□	10.0±20%	77.8	3.17	2.05	40.0±20%	307	1.58	1.00
BF0704150ML □-□□□	15.0±20%	100.0	2.48	1.80	60.0±20%	410	1.24	0.90
BF0704220ML □-□□□	22.0±20%	140.0	2.13	1.45	88.0±20%	560	1.07	0.70
BF0704330ML □-□□□	33.0±20%	190.0	1.73	1.25	132.0±20%	750	0.87	0.60
BF0704470ML □-□□□	47.0±20%	270.0	1.41	1.05	188.0±20%	1080	0.71	0.50
BF0704680ML □-□□□	68.0±20%	380.0	1.19	0.90	272.0±20%	1390	0.60	0.45
BF0704820ML □-□□□	82.0±20%	430.0	1.11	0.80	328.0±20%	1580	0.55	0.40
BF0704101ML □-□□□	100.0±20%	560.0	0.99	0.70	400.0±20%	2060	0.49	0.35
BF0704151ML □-□□□	150.0±20%	800.0	0.81	0.60	600.0±20%	2900	0.41	0.30
BF0704221ML □-□□□	220.0±20%	1080.0	0.66	0.50	880.0±20%	4300	0.33	0.25
BF0704331ML □-□□□	330.0±20%	1600.0	0.54	0.40	1320.0±20%	6300	0.27	0.20
BF0704471ML □-□□□	470.0±20%	2280.0	0.46	0.35	1880.0±20%	9000	0.23	0.17
BF0704681ML □-□□□	680.0±20%	3430.0	0.38	0.30	2960.0±20%	13600	0.19	0.14
BF0704821ML □-□□□	820.0±20%	4300.0	0.35	0.25	3670.0±20%	17100	0.17	0.12
BF0704102ML □-□□□	1000.0±20%	5430.0	0.31	0.22	4500.0±20%	21600	0.16	0.11

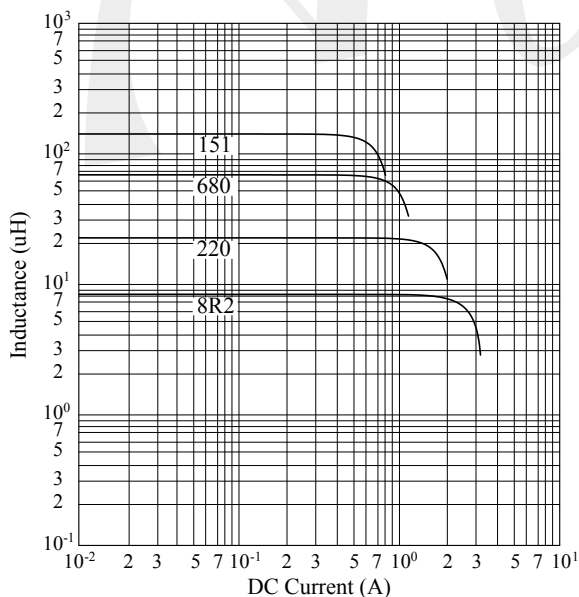
- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

- L Test Freq.: 100kHz / 0.25V
- Isat base on $\Delta L/L0A=30\%$ typ. (Approximately transient current)
- Irms base on Temp. rise 40°C typ.

CURVE

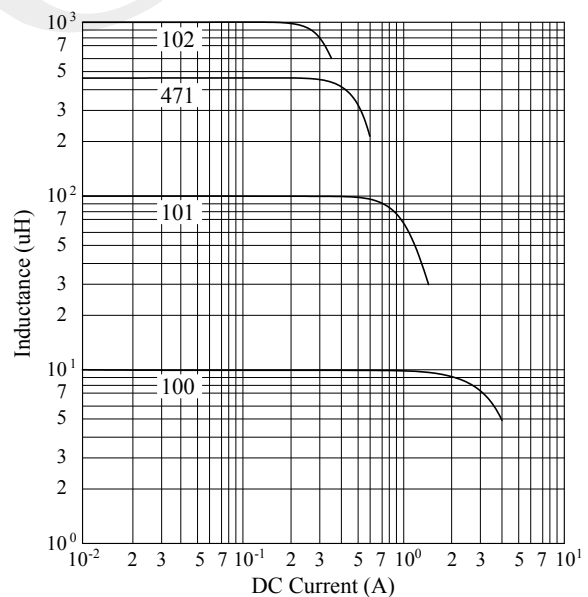
■ BF0703-L Series

@ Inductance VS. DC Current Curve



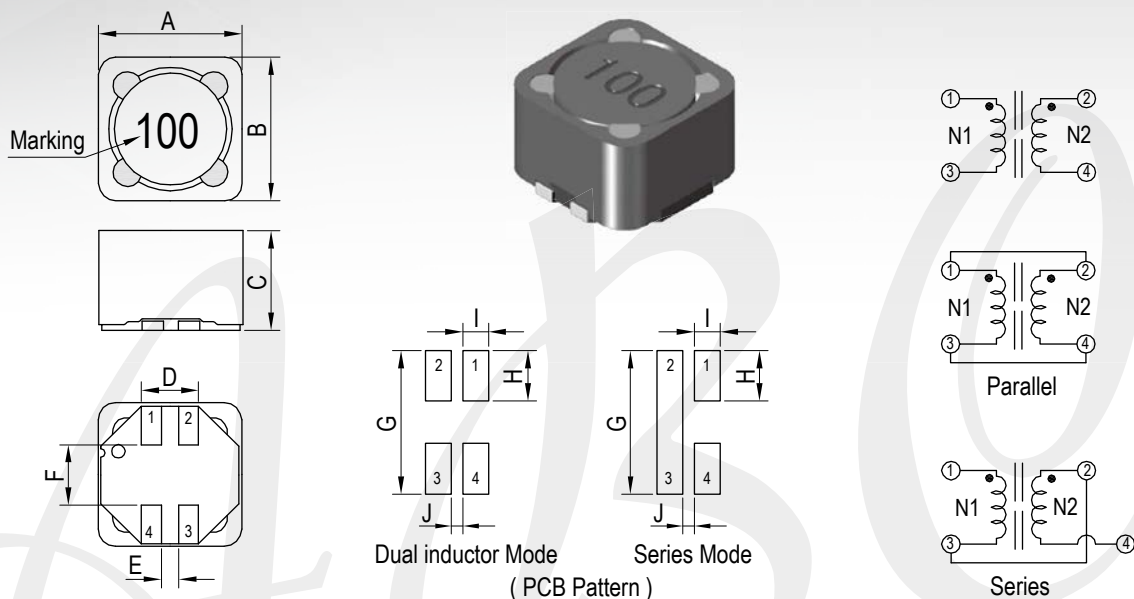
■ BF0704-L Series

@ Inductance VS. DC Current Curve



SF1258/1278-F Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I	J
SF1258-F	12.50 max.	12.50 max.	6.00±0.20	5.00±0.3	1.80±0.20	5.00±0.30	13.00 ref.	4.50 ref.	2.15 ref.	1.28 ref.
SF1278-F	12.50 max.	12.50 max.	8.00 max.	5.00±0.3	1.80±0.20	5.00±0.30	13.00 ref.	4.50 ref.	2.15 ref.	1.28 ref.

DESCRIPTION

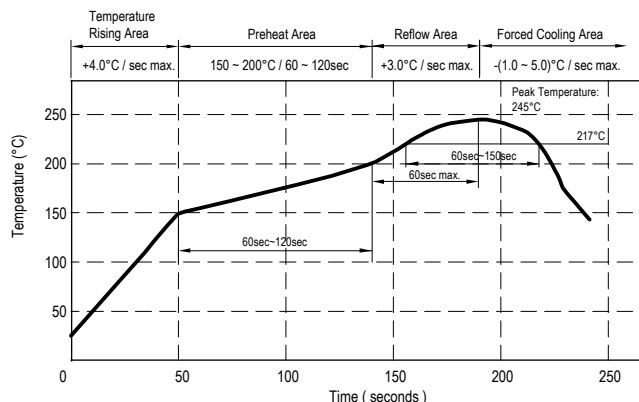
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: F & H class
- Product weight: 2.95 (1258) / 4.10 (1278)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 245°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Drum ferrite+ shielded ring make close magnetic circuit in low leakage field for high density PCB assembly. Double coil parallel connected with low resistance & higher current rating.
- Engineering plastic substrate base with tinned copper terminals offer good co-planarity.
- Recommended for reflow soldering PCB assembly.
- Normal inductance available for median power switching regulator circuit.



SF1258/1278-F Series

ELECTRICAL CHARACTERISTICS

■ SF1258-F Series

DWG. No.	Parallel Ratings				Series Ratings			
	Inductance (μ H)	RDC (m Ω) max.	I _{peak} (A) typ.	I _{rms} (A) typ.	Inductance (μ H)	RDC (m Ω) max.	I _{peak} (A) typ.	I _{rms} (A) typ.
SF1258R47YF□-□□□	0.47 $\pm$ 30%	5.3	33.00	17.60	1.824 $\pm$ 30%	21.2	16.500	8.800
SF12581R0YF□-□□□	1.00 $\pm$ 30%	6.2	23.60	15.00	3.576 $\pm$ 30%	26.0	11.800	7.510
SF12581R5YF□-□□□	1.50 $\pm$ 30%	7.3	18.30	13.80	5.912 $\pm$ 30%	30.2	9.150	6.890
SF12582R2YF□-□□□	2.20 $\pm$ 30%	8.5	15.00	10.90	8.832 $\pm$ 30%	33.3	7.500	5.460
SF12583R3YF□-□□□	3.30 $\pm$ 30%	10.1	12.70	9.26	12.340 $\pm$ 30%	37.2	6.350	4.630
SF12584R7YF□-□□□	4.70 $\pm$ 30%	13.7	9.71	7.18	21.100 $\pm$ 30%	47.9	4.860	3.590
SF12586R8YF□-□□□	6.80 $\pm$ 30%	18.6	8.68	6.64	26.350 $\pm$ 30%	67.2	4.340	3.320
SF12588R2YF□-□□□	8.20 $\pm$ 30%	19.4	7.86	5.54	32.190 $\pm$ 30%	73.7	3.930	2.770
SF1258100MF□-□□□	10.00 $\pm$ 20%	24.6	7.17	5.35	38.620 $\pm$ 20%	93.4	3.590	2.670
SF1258150MF□-□□□	15.00 $\pm$ 20%	32.9	5.69	4.27	61.400 $\pm$ 20%	125.0	2.850	2.130
SF1258220MF□-□□□	22.00 $\pm$ 20%	45.1	4.71	3.70	89.440 $\pm$ 20%	172.0	2.360	1.840
SF1258330MF□-□□□	33.00 $\pm$ 20%	61.8	3.84	3.28	135.000 $\pm$ 20%	256.0	1.920	1.640
SF1258470MF□-□□□	47.00 $\pm$ 20%	86.0	3.24	2.71	189.900 $\pm$ 20%	340.0	1.620	1.350
SF1258680MF□-□□□	68.00 $\pm$ 20%	116.5	2.70	2.22	271.600 $\pm$ 20%	444.0	1.350	1.110
SF1258820MF□-□□□	82.00 $\pm$ 20%	150.0	2.39	2.05	347.600 $\pm$ 20%	568.0	1.200	1.030
SF1258101MF□-□□□	100.00 $\pm$ 20%	171.3	2.20	1.78	410.800 $\pm$ 20%	656.0	1.100	0.892
SF1258151MF□-□□□	150.00 $\pm$ 20%	253.8	1.81	1.48	604.400 $\pm$ 20%	972.0	0.905	0.739
SF1258221MF□-□□□	220.00 $\pm$ 20%	354.0	1.51	1.19	867.200 $\pm$ 20%	1416.0	0.755	0.594
SF1258331MF□-□□□	330.00 $\pm$ 20%	574.0	1.22	1.06	1330.000 $\pm$ 20%	2290.0	0.610	0.530
SF1258471MF□-□□□	470.00 $\pm$ 20%	830.0	1.02	0.87	1892.000 $\pm$ 20%	3197.0	0.510	0.434
SF1258681MF□-□□□	680.00 $\pm$ 20%	1212.0	0.85	0.70	2719.000 $\pm$ 20%	4635.0	0.425	0.350
SF1258821MF□-□□□	820.00 $\pm$ 20%	1460.0	0.77	0.60	3312.000 $\pm$ 20%	5363.0	0.385	0.301
SF1258102MF□-□□□	1000.00 $\pm$ 20%	1854.0	0.70	0.57	4032.000 $\pm$ 20%	6782.0	0.350	0.283

1. □ : Packaging information: □ Code
2. "- □□□" : Reference code
3. Electrical specifications at 25°C

4. Inductance Test Condition.: 100kHz / 0.25V
5. I_{rms} base on Temp. rise 40°C typ.
6. I_{peak} base on $\Delta L/L_0 A=30\%$ typ.

SF1258/1278-F Series

■ SF1278-F Series

DWG. No.	Parallel Ratings				Series Ratings			
	Inductance (μH)	RDC (mΩ) max.	I _{peak} (A) typ.	I _{rms} (A) typ.	Inductance (μH)	RDC (mΩ) max.	I _{peak} (A) typ.	I _{rms} (A) typ.
SF1278R47YF□-□□□	0.47±30%	5.5	56.00	17.90	1.676±30%	21.6	28.000	8.940
SF12781R0YF□-□□□	1.00±30%	6.7	40.00	15.50	3.284±30%	26.0	20.000	7.740
SF12781R5YF□-□□□	1.50±30%	7.6	31.10	13.50	5.428±30%	30.6	15.600	6.770
SF12782R2YF□-□□□	2.20±30%	9.2	25.50	12.50	8.108±30%	33.8	12.700	6.230
SF12783R3YF□-□□□	3.30±30%	11.0	21.50	10.40	11.320±30%	40.0	10.800	5.230
SF12784R7YF□-□□□	4.70±30%	13.5	16.50	8.25	19.360±30%	50.0	8.240	4.130
SF12786R8YF□-□□□	6.80±30%	18.3	13.30	7.34	29.550±30%	65.6	6.670	3.670
SF12788R2YF□-□□□	8.20±30%	19.1	12.20	6.32	35.440±30%	71.4	6.090	3.160
SF1278100MF□-□□□	10.00±20%	24.1	11.20	6.04	41.880±20%	92.1	5.600	3.020
SF1278150MF□-□□□	15.00±20%	33.3	9.66	5.03	56.360±20%	129.0	4.830	2.510
SF1278220MF□-□□□	22.00±20%	50.3	7.57	4.00	91.720±20%	192.0	3.780	2.000
SF1278330MF□-□□□	33.00±20%	66.4	6.22	3.23	135.700±20%	265.0	3.110	1.610
SF1278470MF□-□□□	47.00±20%	89.8	5.28	2.95	188.200±20%	353.0	2.640	1.470
SF1278680MF□-□□□	68.00±20%	123.0	4.44	2.44	265.900±20%	469.0	2.220	1.220
SF1278820MF□-□□□	82.00±20%	153.0	4.06	2.09	319.000±20%	578.0	2.030	1.040
SF1278101MF□-□□□	100.00±20%	175.0	3.64	1.96	397.200±20%	701.0	1.820	0.980
SF1278151MF□-□□□	150.00±20%	261.0	3.01	1.59	579.600±20%	1013.0	1.510	0.796
SF1278221MF□-□□□	220.00±20%	343.0	2.43	1.29	886.000±20%	1380.0	1.220	0.645
SF1278331MF□-□□□	330.00±20%	540.0	2.01	1.04	1294.000±20%	2172.0	1.010	0.522
SF1278471MF□-□□□	470.00±20%	865.0	1.68	0.85	1868.000±20%	3300.0	0.838	0.427
SF1278681MF□-□□□	680.00±20%	1296.0	1.39	0.76	2707.000±20%	4888.0	0.697	0.380
SF1278821MF□-□□□	820.00±20%	1632.0	1.27	0.65	3272.000±20%	5896.0	0.633	0.325
SF1278102MF□-□□□	1000.00±20%	1992.0	1.14	0.61	4020.000±20%	7202.0	0.571	0.307

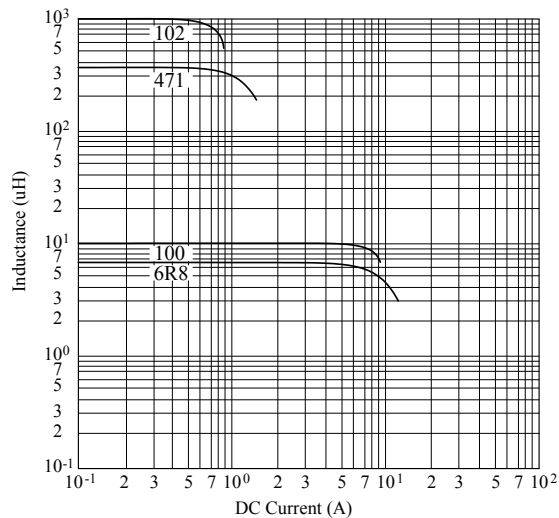
1. □ : Packaging information: □ Code
2. "- □□□": Reference code
3. Electrical specifications at 25°C

4. Inductance Test Condition.: 100kHz / 0.25V
5. I_{rms} base on Temp. rise 40°C typ.
6. I_{peak} base on ΔL/L0A=30% typ.

CURVE

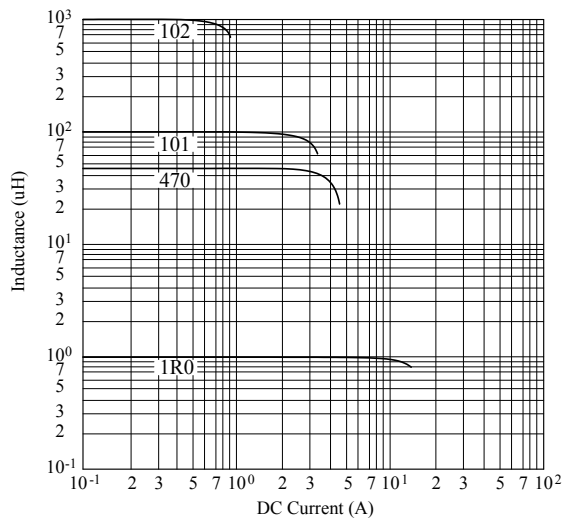
■ SF1258-F Series

@ Inductance VS. DC Current Curve



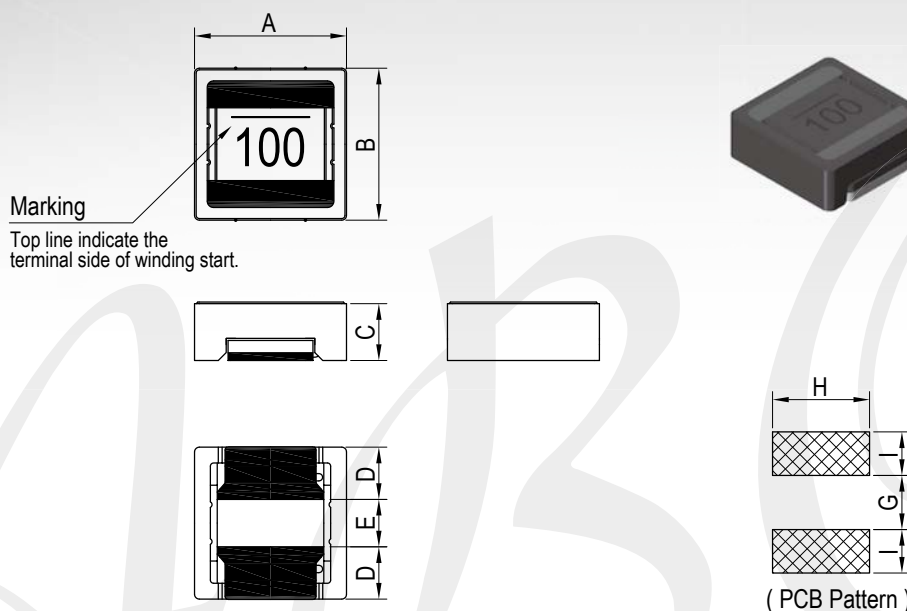
■ SF1278-F Series

@ Inductance VS. DC Current Curve



QS3818/4818/5818-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	G	H	I
QS3818-L	3.80±0.20	3.80±0.20	1.80±0.20	1.30±0.20	1.20±0.20	1.10 ref.	4.30 ref.	1.60 ref.
QS4818-L	4.80±0.20	4.80±0.20	1.80±0.20	1.60±0.20	1.60±0.20	1.17 ref.	4.20 ref.	1.98 ref.
QS5818-L	5.80±0.30	5.80±0.30	1.80±0.20	1.90 typ.	2.00 typ.	1.70 ref.	4.85 ref.	2.30 ref.

DESCRIPTION

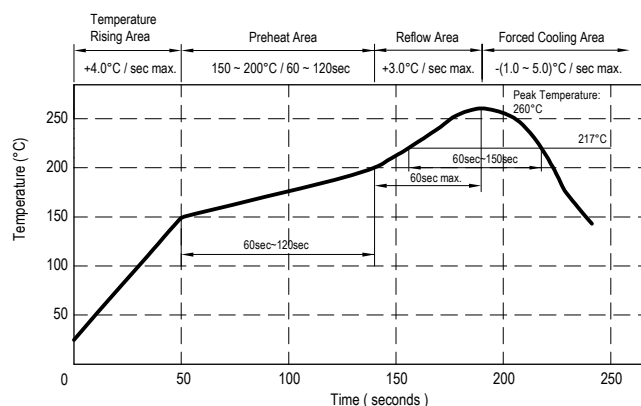
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: H class
- Product weight: 0.11 (3818) / 0.19 (4818) / 0.25(5818)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density pcb assembly.
- With positional device keep even gap between DR CORE & outside shielded offer narrow inductance tolerance range.
- Recommended for reflow soldering Pcb assembly.
- Extremely low profile design for low power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 260°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 260°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



QS3818/4818/5818-L Series

ELECTRICAL CHARACTERISTICS

■ QS3818-L Series

DWG. No.	Inductance (μ H)	SRF (MHz) typ.	RDC (m Ω)		Isat (A) typ.	Irms 1 (A) typ.	Irms 2 (A) typ.
			typ.	max.			
QS38181R0YL□-□□□	1.0 $\pm$ 30%	165	27.5	37.0	2.10	2.75	3.60
QS38181R5YL□-□□□	1.5 $\pm$ 30%	125	33.0	47.0	1.60	2.50	3.10
QS38182R2YL□-□□□	2.2 $\pm$ 30%	95	45.5	60.0	1.40	2.00	2.60
QS38182R7YL□-□□□	2.7 $\pm$ 30%	90	49.5	65.0	1.30	1.90	2.50
QS38183R3YL□-□□□	3.3 $\pm$ 30%	75	64.5	85.0	1.15	1.70	2.10
QS38183R9YL□-□□□	3.9 $\pm$ 30%	70	80.0	105.0	1.05	1.60	2.00
QS38184R7YL□-□□□	4.7 $\pm$ 30%	60	90.0	120.0	0.95	1.50	1.90
QS38186R8YL□-□□□	6.8 $\pm$ 30%	50	125.0	160.0	0.80	1.25	1.60
QS3818100ML□-□□□	10.0 $\pm$ 20%	40	180.0	235.0	0.65	1.00	1.30
QS3818150ML□-□□□	15.0 $\pm$ 20%	30	260.0	340.0	0.55	0.80	1.05
QS3818220ML□-□□□	22.0 $\pm$ 20%	25	395.0	500.0	0.43	0.65	0.80
QS3818330ML□-□□□	33.0 $\pm$ 20%	20	590.0	740.0	0.34	0.50	0.65
QS3818470ML□-□□□	47.0 $\pm$ 20%	15	825.0	1030.0	0.30	0.45	0.56
QS3818680ML□-□□□	68.0 $\pm$ 20%	13	1280.0	1600.0	0.24	0.38	0.46
QS3818101ML□-□□□	100.0 $\pm$ 20%	11	2040.0	2600.0	0.20	0.28	0.34

■ QS4818-L Series

DWG. No.	Inductance (μ H)	SRF (MHz) typ.	RDC (m Ω)		Isat (A) typ.	Irms 1 (A) typ.	Irms 2 (A) typ.
			typ.	max.			
QS48181R0YL□-□□□	1.0 $\pm$ 30%	140	19.2	25.0	3.60	4.00	5.10
QS48181R5YL□-□□□	1.5 $\pm$ 30%	105	25.2	35.0	3.00	3.75	4.70
QS48182R2YL□-□□□	2.2 $\pm$ 30%	90	33.7	45.0	2.43	2.70	3.50
QS48183R3YL□-□□□	3.3 $\pm$ 30%	70	42.8	55.0	2.10	2.50	3.10
QS48183R9YL□-□□□	3.9 $\pm$ 30%	65	54.5	70.0	1.90	2.20	2.70
QS48184R7YL□-□□□	4.7 $\pm$ 30%	55	59.4	80.0	1.50	2.00	2.60
QS48185R6YL□-□□□	5.6 $\pm$ 30%	50	74.3	90.0	1.35	1.75	2.30
QS48186R8YL□-□□□	6.8 $\pm$ 30%	45	82.1	100.0	1.25	1.65	2.20
QS48188R2YL□-□□□	8.2 $\pm$ 30%	43	97.7	130.0	1.15	1.55	1.90
QS4818100ML□-□□□	10.0 $\pm$ 20%	40	109.8	140.0	1.05	1.45	1.80
QS4818120ML□-□□□	12.0 $\pm$ 20%	37	132.2	170.0	0.95	1.30	1.60
QS4818150ML□-□□□	15.0 $\pm$ 20%	30	176.7	220.0	0.87	1.25	1.50
QS4818180ML□-□□□	18.0 $\pm$ 20%	28	214.8	280.0	0.79	1.10	1.40
QS4818220ML□-□□□	22.0 $\pm$ 20%	25	280.3	360.0	0.72	1.00	1.25
QS4818270ML□-□□□	27.0 $\pm$ 20%	22	317.6	400.0	0.63	0.90	1.15
QS4818330ML□-□□□	33.0 $\pm$ 20%	20	399.1	500.0	0.56	0.70	0.90
QS4818390ML□-□□□	39.0 $\pm$ 20%	17	439.3	540.0	0.53	0.63	0.80
QS4818470ML□-□□□	47.0 $\pm$ 20%	16	504.1	630.0	0.47	0.60	0.75
QS4818560ML□-□□□	56.0 $\pm$ 20%	14	643.1	800.0	0.45	0.55	0.67
QS4818680ML□-□□□	68.0 $\pm$ 20%	13	778.4	970.0	0.40	0.50	0.62
QS4818820ML□-□□□	82.0 $\pm$ 20%	12	960.5	1200.0	0.35	0.45	0.57
QS4818101ML□-□□□	100.0 $\pm$ 20%	10	1158.4	1400.0	0.33	0.38	0.50

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C
- Inductance test freq. : 100kHz / 0.1V

- Isat base on $\Delta L/L_0A=35\%$ typ.(Approximately transient current)
- Irms 1 base on Temp. rise 20°C typ.
- Irms 2 base on Temp. rise 40°C typ.

QS3818/4818/5818-L Series

ELECTRICAL CHARACTERISTICS

■ QS5818-L Series

DWG. No.	Inductance (μ H)	SRF (MHz) typ.	RDC (m Ω)		Isat (A) typ.	Irms 1 (A) typ.	Irms 2 (A) typ.
			typ.	max.			
QS58181R5YL□-□□□	1.5 $\pm$ 30%	100.0	24.0	31.0	3.900	3.000	4.800
QS58182R0YL□-□□□	2.0 $\pm$ 30%	83.0	33.0	43.0	3.200	2.500	3.500
QS58183R0YL□-□□□	3.0 $\pm$ 30%	73.0	58.0	75.0	2.700	1.900	2.650
QS58183R9YL□-□□□	3.9 $\pm$ 30%	63.0	72.0	94.0	2.400	1.700	2.400
QS58185R0YL□-□□□	5.0 $\pm$ 30%	56.0	83.0	108.0	2.100	1.600	2.200
QS58186R2YL□-□□□	6.2 $\pm$ 30%	51.0	95.0	123.0	1.900	1.500	2.000
QS58187R5YL□-□□□	7.5 $\pm$ 30%	43.0	115.0	152.0	1.750	1.350	1.700
QS58189R0YL□-□□□	9.0 $\pm$ 30%	38.0	140.0	185.0	1.600	1.200	1.600
QS5818100ML□-□□□	10.0 $\pm$ 20%	30.0	180.0	235.0	1.450	1.100	1.500
QS5818120ML□-□□□	12.0 $\pm$ 20%	29.0	195.0	250.0	1.350	1.000	1.450
QS5818150ML□-□□□	15.0 $\pm$ 20%	25.0	230.0	300.0	1.200	0.900	1.300
QS5818180ML□-□□□	18.0 $\pm$ 20%	23.0	280.0	365.0	1.150	0.850	1.200
QS5818220ML□-□□□	22.0 $\pm$ 20%	21.0	365.0	475.0	0.980	0.750	1.050
QS5818270ML□-□□□	27.0 $\pm$ 20%	20.0	410.0	510.0	0.900	0.700	0.950
QS5818330ML□-□□□	33.0 $\pm$ 20%	18.0	455.0	570.0	0.830	0.650	0.900
QS5818390ML□-□□□	39.0 $\pm$ 20%	15.0	570.0	710.0	0.750	0.600	0.850
QS5818470ML□-□□□	47.0 $\pm$ 20%	14.0	650.0	810.0	0.680	0.570	0.800
QS5818560ML□-□□□	56.0 $\pm$ 20%	13.0	700.0	875.0	0.630	0.550	0.750
QS5818680ML□-□□□	68.0 $\pm$ 20%	11.0	965.0	1205.0	0.560	0.470	0.580
QS5818820ML□-□□□	82.0 $\pm$ 20%	10.0	1135.0	1420.0	0.520	0.430	0.550
QS5818101ML□-□□□	100.0 $\pm$ 20%	9.0	1515.0	1890.0	0.470	0.370	0.520
QS5818121ML□-□□□	120.0 $\pm$ 20%	8.0	1690.0	2110.0	0.420	0.350	0.500
QS5818151ML□-□□□	150.0 $\pm$ 20%	7.0	2140.0	2675.0	0.380	0.310	0.440
QS5818181ML□-□□□	180.0 $\pm$ 20%	6.0	2700.0	3245.0	0.340	0.280	0.350
QS5818221ML□-□□□	220.0 $\pm$ 20%	5.0	3400.0	4080.0	0.320	0.240	0.330

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. Inductance test freq. : 100kHz / 0.1V

5. Isat base on $\Delta L/L_0=35\%$ typ.(Approximately transient current)

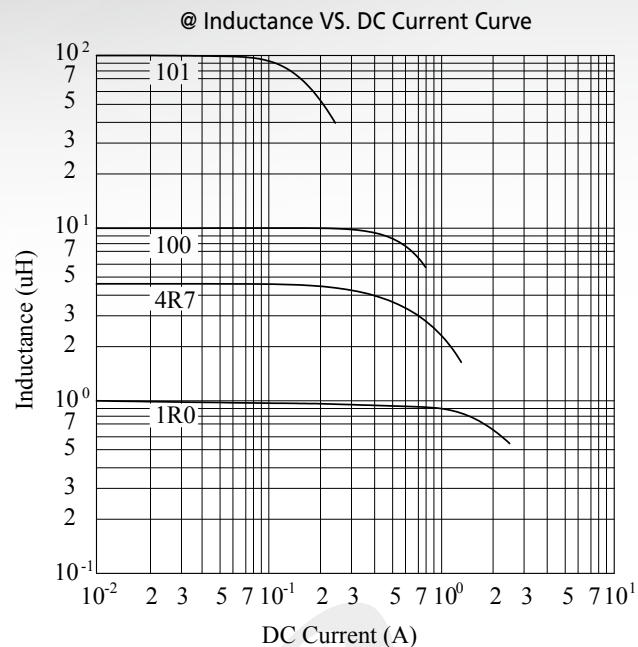
6. Irms 1 base on Temp. rise 20°C typ.

7. Irms 2 base on Temp. rise 40°C typ.

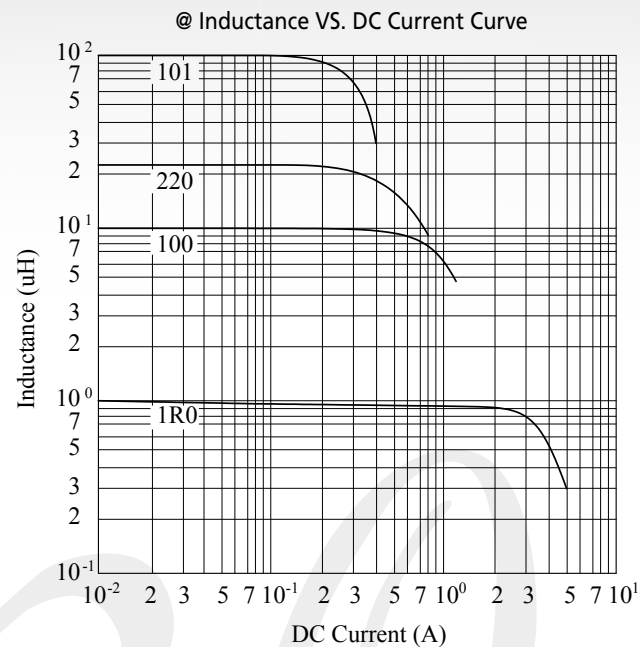
QS3818/4818/5818-L Series

CURVE

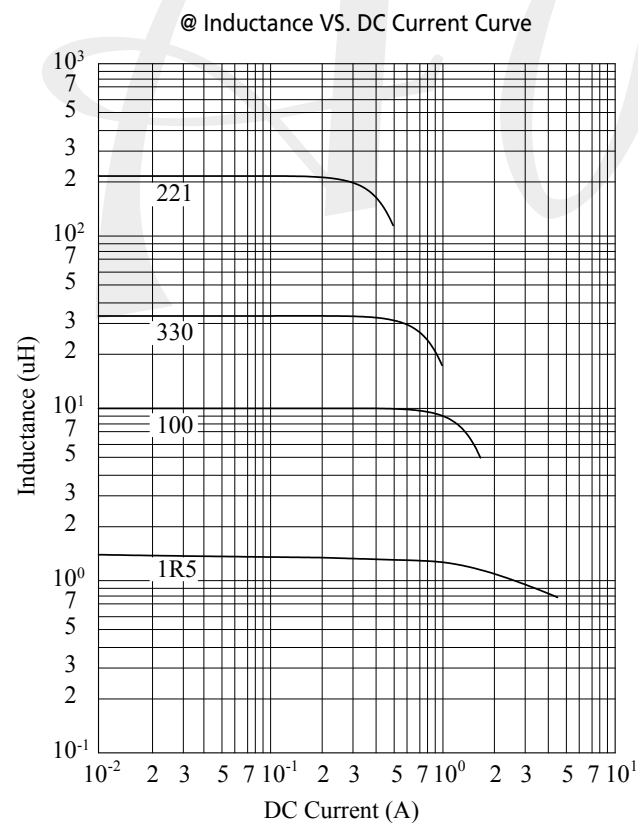
■ QS3818-L Series



■ QS4818-L Series

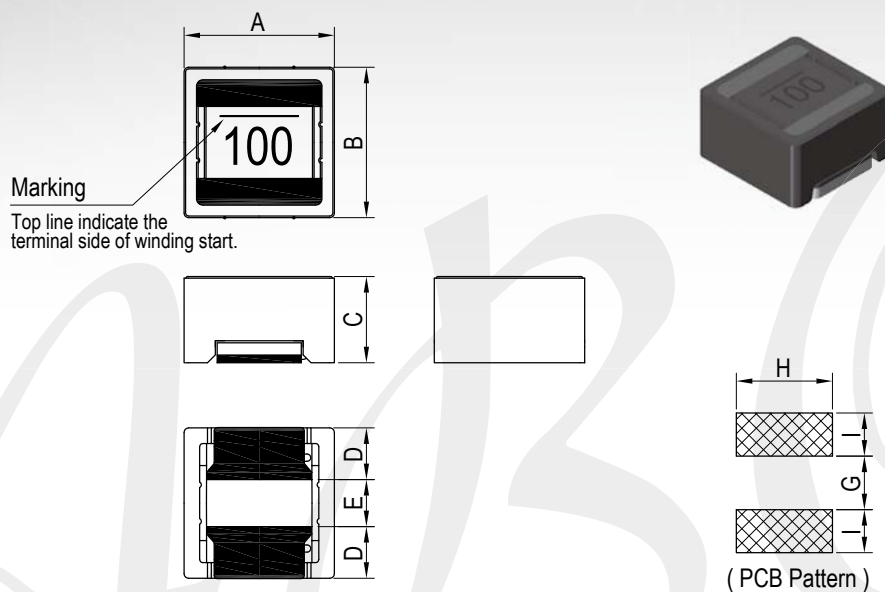


■ QS5818-L Series



QS3828/4828-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	G	H	I
QS3828-L	3.80±0.20	3.80±0.20	2.80±0.20	1.30±0.20	1.20±0.20	0.80 ref.	2.40 ref.	1.60 ref.
QS4828-L	4.80±0.20	4.80±0.20	2.80±0.20	1.60±0.20	1.60±0.20	1.17 ref.	4.20 ref.	1.98 ref.

DESCRIPTION

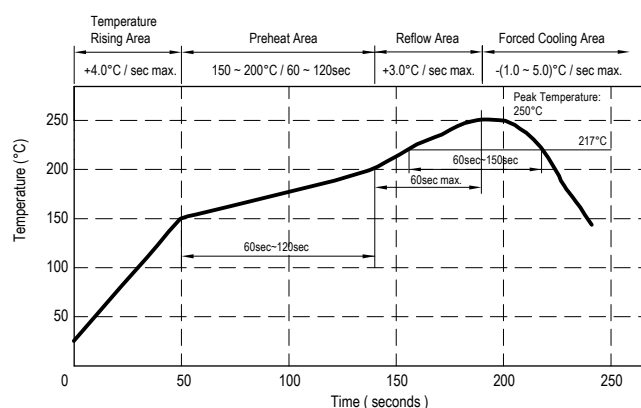
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: H class
- Product weight: 0.180 (3828) / 0.265 (4828)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density pcb assembly.
- With positional device keep even gap between DR CORE & outside shielded offer narrow inductance tolerance range.
- Recommended for reflow soldering Pcb assembly.
- Extremely low profile design for low power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



QS3828/4828-L Series

ELECTRICAL CHARACTERISTICS

■ QS3828-L Series

DWG. No.	Inductance (μ H)	SRF (MHz) typ.	RDC (m Ω)		Isat (A) typ.	Irms 1 (A) typ.	Irms 2 (A) typ.
			typ.	max.			
QS38283R3YL□-□□□	3.3 $\pm$ 30%	64.0	37.0	48.0	1.700	2.000	2.500
QS38284R7YL□-□□□	4.7 $\pm$ 30%	55.0	51.0	66.0	1.480	1.800	2.400
QS38286R8YL□-□□□	6.8 $\pm$ 30%	36.0	86.0	110.0	1.160	1.140	1.600
QS3828100ML□-□□□	10.0 $\pm$ 20%	27.0	120.0	154.0	0.950	1.040	1.500
QS3828150ML□-□□□	15.0 $\pm$ 20%	23.0	160.0	200.0	0.800	0.950	1.300
QS3828220ML□-□□□	22.0 $\pm$ 20%	20.0	265.0	330.0	0.680	0.760	1.000
QS3828330ML□-□□□	33.0 $\pm$ 20%	19.0	392.0	490.0	0.540	0.500	0.700
QS3828470ML□-□□□	47.0 $\pm$ 20%	12.0	475.0	595.0	0.450	0.450	0.650
QS3828680ML□-□□□	68.0 $\pm$ 20%	9.0	633.0	790.0	0.380	0.360	0.550
QS3828101ML□-□□□	100.0 $\pm$ 20%	8.0	956.0	1150.0	0.320	0.340	0.480

■ QS4828-L Series

DWG. No.	Inductance (μ H)	SRF (MHz) typ.	RDC (m Ω)		Isat (A) typ.	Irms 1 (A) typ.	Irms 2 (A) typ.
			typ.	max.			
QS48281R2YL□-□□□	1.2 $\pm$ 30%	155.0	18.5	24.0	3.000	3.500	5.000
QS48281R8YL□-□□□	1.8 $\pm$ 30%	105.0	22.7	30.0	2.500	3.000	4.600
QS48282R7YL□-□□□	2.7 $\pm$ 30%	80.0	26.2	34.0	2.200	2.500	4.000
QS48283R9YL□-□□□	3.9 $\pm$ 30%	60.0	36.3	47.0	1.800	2.200	3.400
QS48284R7YL□-□□□	4.7 $\pm$ 30%	50.0	41.4	54.0	1.600	2.100	3.000
QS48286R8YL□-□□□	6.8 $\pm$ 30%	40.0	57.0	74.0	1.300	1.650	2.600
QS48288R2YL□-□□□	8.2 $\pm$ 30%	35.0	66.8	87.0	1.250	1.600	2.400
QS4828100ML□-□□□	10.0 $\pm$ 20%	30.0	76.4	100.0	1.100	1.500	2.300
QS4828120ML□-□□□	12.0 $\pm$ 20%	27.0	100.0	125.0	0.950	1.350	2.000
QS4828150ML□-□□□	15.0 $\pm$ 20%	25.0	108.8	145.0	0.920	1.300	1.800
QS4828180ML□-□□□	18.0 $\pm$ 20%	22.0	125.0	160.0	0.800	1.200	1.700
QS4828220ML□-□□□	22.0 $\pm$ 20%	20.0	145.9	185.0	0.680	1.100	1.550
QS4828330ML□-□□□	33.0 $\pm$ 20%	15.0	208.2	260.0	0.600	0.900	1.400
QS4828470ML□-□□□	47.0 $\pm$ 20%	13.0	215.0	270.0	0.470	0.880	1.200
QS4828560ML□-□□□	56.0 $\pm$ 20%	12.0	260.4	320.0	0.400	0.850	1.050
QS4828680ML□-□□□	68.0 $\pm$ 20%	11.0	294.3	370.0	0.380	0.800	0.900
QS4828820ML□-□□□	82.0 $\pm$ 20%	10.0	381.9	480.0	0.350	0.700	0.850
QS4828101ML□-□□□	100.0 $\pm$ 20%	8.5	495.3	600.0	0.330	0.650	0.700
QS4828121ML□-□□□	120.0 $\pm$ 20%	8.0	630.0	760.0	0.300	0.500	0.650
QS4828151ML□-□□□	150.0 $\pm$ 20%	7.0	713.9	860.0	0.280	0.450	0.600
QS4828181ML□-□□□	180.0 $\pm$ 20%	6.0	899.1	1080.0	0.260	0.430	0.550
QS4828221ML□-□□□	220.0 $\pm$ 20%	5.5	1000.7	1250.0	0.240	0.410	0.500
QS4828271ML□-□□□	270.0 $\pm$ 20%	5.0	1418.0	1700.0	0.210	0.400	0.450
QS4828331ML□-□□□	330.0 $\pm$ 20%	4.5	1552.8	1800.0	0.200	0.320	0.400
QS4828391ML□-□□□	390.0 $\pm$ 20%	4.0	2057.5	2400.0	0.170	0.300	0.350
QS4828471ML□-□□□	470.0 $\pm$ 20%	3.3	2312.3	2600.0	0.160	0.270	0.330
QS4828561ML□-□□□	560.0 $\pm$ 20%	3.0	2605.5	3000.0	0.150	0.250	0.300

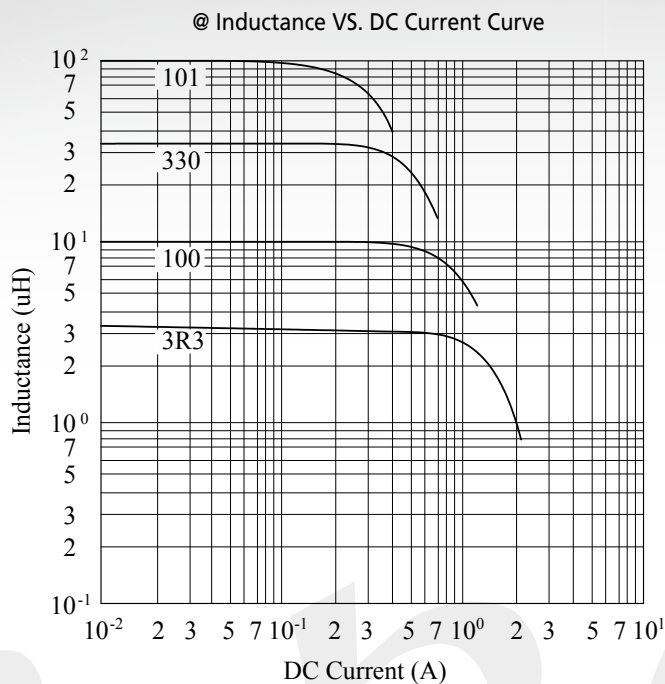
1. □ : Packaging information: □ Code
2. "- □□□": Reference code
3. Electrical specifications at 25°C
4. Inductance test freq. : 100kHz / 0.1V

5. Isat base on $\Delta L/L_0A=35\%$ typ.(Approximately transient current)
6. Irms 1 base on Temp. rise 20°C typ.
7. Irms 2 base on Temp. rise 40°C typ.

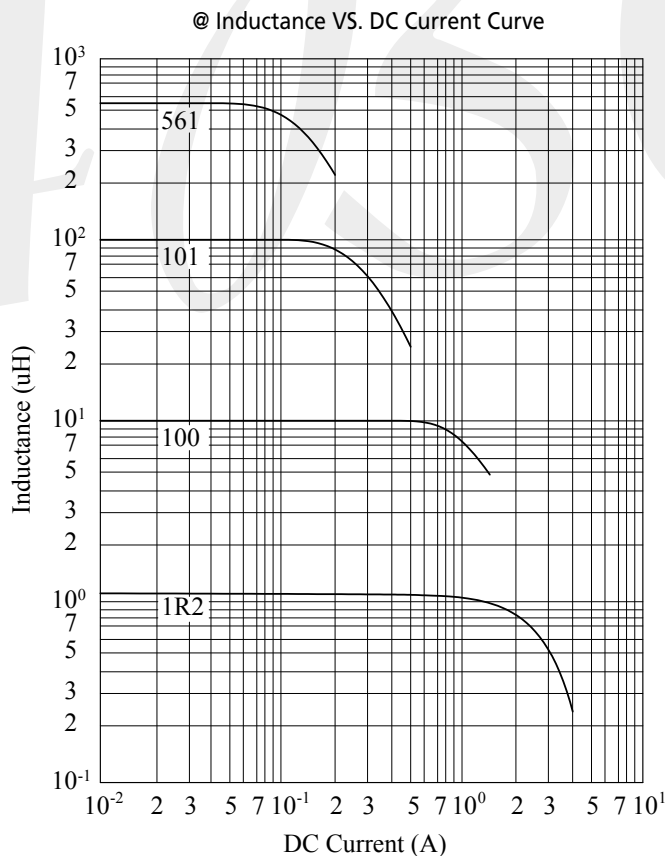
QS3828/4828-L Series

CURVE

■ QS3828-L Series

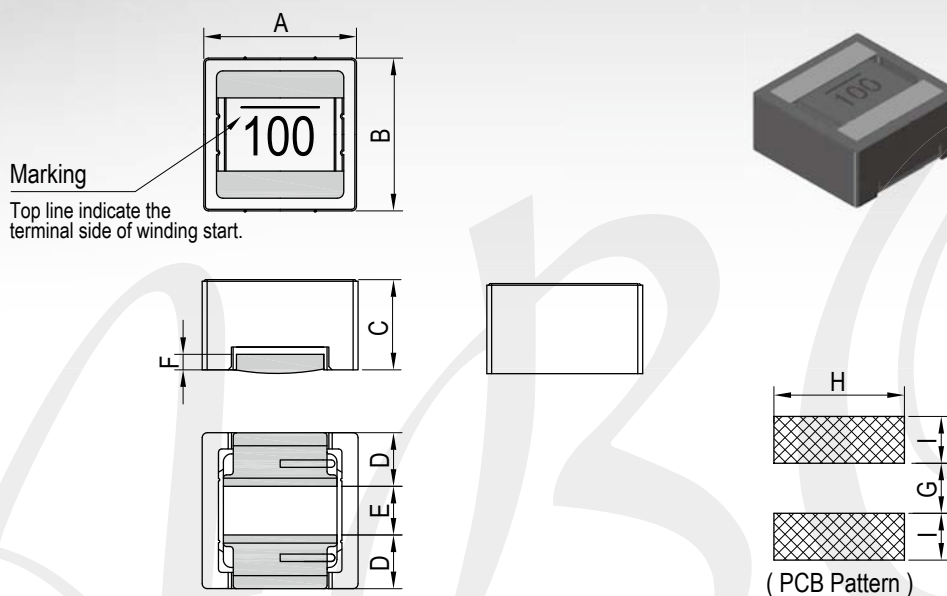


■ QS4828-L Series



QS5828/6828-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I
QS5828-L	5.80±0.30	5.80±0.30	2.80±0.20	1.90±0.30	2.00±0.30	0.50±0.20	1.60 ref.	4.85 ref.	2.30 ref.
QS6828-L	6.80±0.30	6.80±0.30	2.80±0.20	2.10 typ.	2.60 typ.	0.30 min.	2.20 ref.	5.45 ref.	2.50 ref.

DESCRIPTION

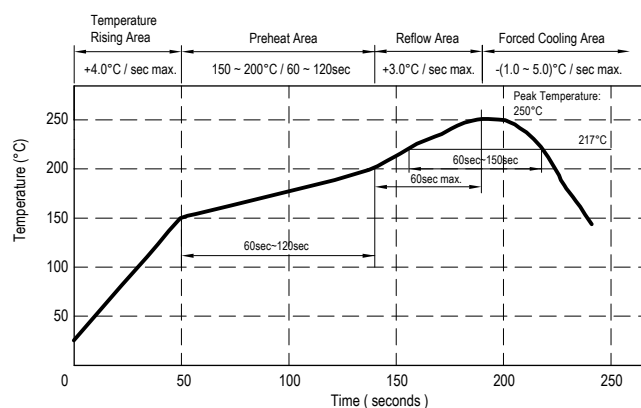
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: H class
- Product weight: 0.470 (5828) / 0.505 (6828)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Close magnetic circuit with ferrite shielded in low leakage field for high density pcb assembly.
- With positional device keep even gap between DR CORE & outside shielded offer narrow inductance tolerance range.
- Recommended for reflow soldering Pcb assembly.
- Extremely low profile design for low power switching regulator circuit.

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



QS5828/6828-L Series

ELECTRICAL CHARACTERISTICS

■ QS5828-L Series

DWG. No.	Inductance (μ H)	SRF (MHz) typ.	RDC (m Ω)		Isat (A) typ.	Irms 1 (A) typ.	Irms 2 (A) typ.
			typ.	max.			
QS58282R6YL□-□□□	2.6 $\pm$ 30%	78.0	23.0	30.0	3.150	3.250	4.500
QS58284R7YL□-□□□	4.7 $\pm$ 30%	48.0	31.0	40.0	2.570	3.000	3.900
QS58285R3YL□-□□□	5.3 $\pm$ 30%	46.0	35.0	42.0	2.200	2.800	3.800
QS58286R2YL□-□□□	6.2 $\pm$ 30%	41.0	45.0	57.0	2.100	2.600	3.500
QS58288R2YL□-□□□	8.2 $\pm$ 30%	37.0	49.0	63.0	1.620	2.300	3.000
QS5828100ML□-□□□	10.0 $\pm$ 20%	32.0	64.0	83.0	1.550	2.000	2.600
QS5828120ML□-□□□	12.0 $\pm$ 20%	25.0	76.0	100.0	1.500	1.850	2.500
QS5828150ML□-□□□	15.0 $\pm$ 20%	25.0	90.0	115.0	1.350	1.700	2.250
QS5828180ML□-□□□	18.0 $\pm$ 20%	22.0	100.0	130.0	1.300	1.600	2.150
QS5828220ML□-□□□	22.0 $\pm$ 20%	19.0	125.0	160.0	1.150	1.350	1.750
QS5828270ML□-□□□	27.0 $\pm$ 20%	18.0	147.0	180.0	1.050	1.250	1.650
QS5828330ML□-□□□	33.0 $\pm$ 20%	15.0	190.0	230.0	0.920	1.100	1.400
QS5828390ML□-□□□	39.0 $\pm$ 20%	14.0	200.0	260.0	0.860	1.050	1.370
QS5828470ML□-□□□	47.0 $\pm$ 20%	13.0	247.0	305.0	0.780	1.000	1.330
QS5828560ML□-□□□	56.0 $\pm$ 20%	11.0	315.0	395.0	0.700	0.850	1.130
QS5828680ML□-□□□	68.0 $\pm$ 20%	10.0	375.0	470.0	0.650	0.800	1.030
QS5828820ML□-□□□	82.0 $\pm$ 20%	9.0	425.0	530.0	0.600	0.730	0.950
QS5828101ML□-□□□	100.0 $\pm$ 20%	8.0	515.0	645.0	0.530	0.600	0.800
QS5828151ML□-□□□	150.0 $\pm$ 20%	7.0	745.0	910.0	0.450	0.550	0.700
QS5828181ML□-□□□	180.0 $\pm$ 20%	5.5	885.0	1100.0	0.420	0.480	0.640
QS5828221ML□-□□□	220.0 $\pm$ 20%	5.0	1027.0	1200.0	0.370	0.450	0.620
QS5828331ML□-□□□	330.0 $\pm$ 20%	4.0	1800.0	2100.0	0.300	0.350	0.460
QS5828681ML□-□□□	680.0 $\pm$ 20%	3.0	4045.0	4800.0	0.210	0.230	0.310

1. □ : Packaging information: □ Code
2. "- □□□" : Reference code
3. Electrical specifications at 25°C
4. Inductance test freq. : 100kHz / 0.1V

5. Isat base on $\Delta L/L_0 = 35\%$ typ. (Approximately transient current)
6. Irms 1 base on Temp. rise 20°C typ.
7. Irms 2 base on Temp. rise 40°C typ.

QS5828/6828-L Series

SQ

■ QS6828-L Series

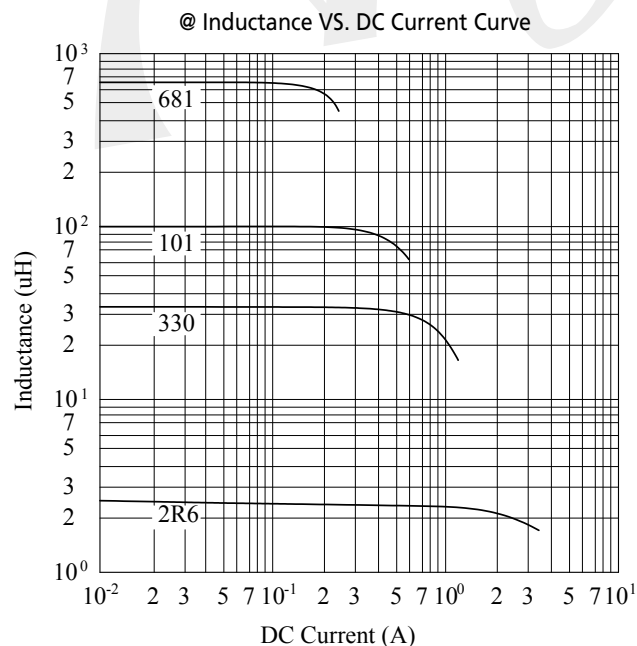
DWG. No.	Inductance (μH)	SRF (MHz) typ.	RDC (mΩ)		Isat (A) typ.	Irms 1 (A) typ.	Irms 2 (A) typ.
			typ.	max.			
QS68282R5YL□-□□□	2.5±30%	77.0	23.0	30.0	3.400	4.500	4.900
QS68283R3YL□-□□□	3.3±30%	63.0	25.0	33.0	3.000	3.300	4.700
QS68284R3YL□-□□□	4.3±30%	55.0	33.0	43.0	2.600	2.800	4.000
QS68285R0YL□-□□□	5.0±30%	48.0	38.0	48.0	2.300	2.650	3.800
QS68286R4YL□-□□□	6.4±30%	42.0	46.0	60.0	2.100	2.350	3.400
QS68287R7YL□-□□□	7.7±30%	37.0	54.0	70.0	1.900	2.200	3.200
QS6828100ML□-□□□	10.0±20%	33.0	64.0	84.0	1.750	2.150	2.900
QS6828150ML□-□□□	15.0±20%	24.0	113.0	145.0	1.400	1.600	2.200
QS6828220ML□-□□□	22.0±20%	20.0	141.0	180.0	1.150	1.500	2.000
QS6828330ML□-□□□	33.0±20%	15.0	170.0	205.0	0.920	1.400	1.800
QS6828470ML□-□□□	47.0±20%	13.0	240.0	290.0	0.800	1.000	1.400
QS6828680ML□-□□□	68.0±20%	10.0	340.0	410.0	0.670	0.900	1.200
QS6828101ML□-□□□	100.0±20%	8.0	460.0	555.0	0.550	0.800	1.000
QS6828151ML□-□□□	150.0±20%	6.0	740.0	890.0	0.440	0.600	0.800
QS6828221ML□-□□□	220.0±20%	5.5	1057.0	1200.0	0.360	0.450	0.600
QS6828331ML□-□□□	330.0±20%	4.5	1510.0	1740.0	0.300	0.400	0.550
QS6828471ML□-□□□	470.0±20%	3.5	2210.0	2540.0	0.250	0.300	0.450
QS6828681ML□-□□□	680.0±20%	3.0	3180.0	3560.0	0.210	0.250	0.350
QS6828102ML□-□□□	1000.0±20%	2.5	4070.0	4480.0	0.170	0.200	0.300

1. □ : Packaging information: □ Code
2. "□□□": Reference code
3. Electrical specifications at 25°C
4. Inductance test freq. : 100kHz / 0.1V

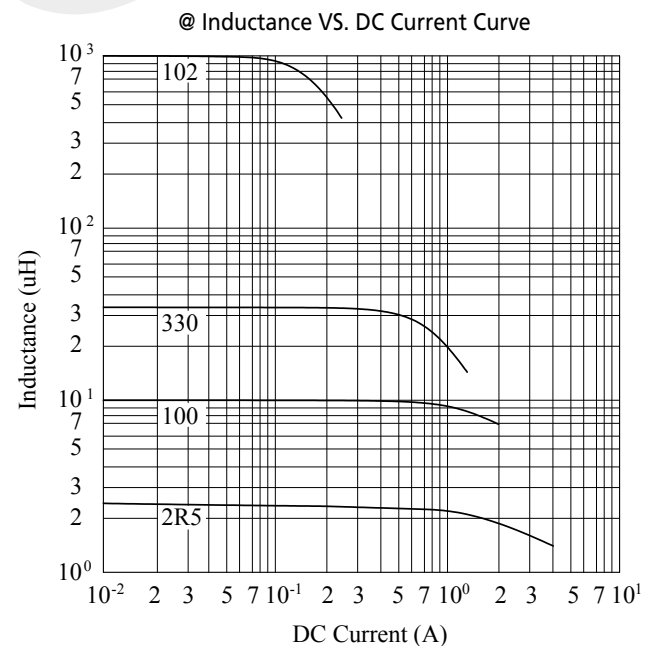
5. Isat base on $\Delta L/L0A=35\%$ typ.(Approximately transient current)
6. Irms 1 base on Temp. rise 20°C typ.
7. Irms 2 base on Temp. rise 40°C typ.

CURVE

■ QS5828-L Series

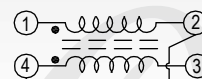
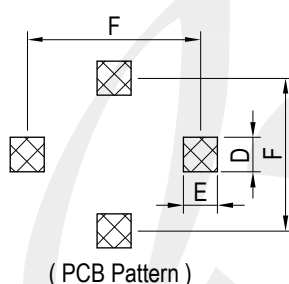
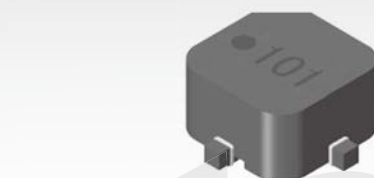
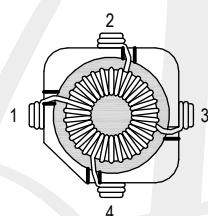
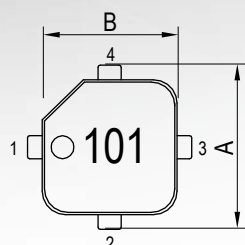


■ QS6828-L Series

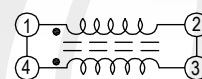


SF1206/1407-L Series

CONFIGURATION & DIMENSIONS

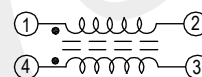


Series Mode



Parallel Mode

"●" : Polarity

1:1 Transformer
Dual Diff Mode

Unit: mm

Series	A	B	C	D	E	F
SF1206-L	11.50±0.50	9.00±0.50	5.70 max.	2.54 ref.	2.54 ref.	9.80 ref.
SF1407-L	14.00±0.50	11.50±0.50	6.70 max.	4.00 ref.	2.54 ref.	12.70 ref.

DESCRIPTION

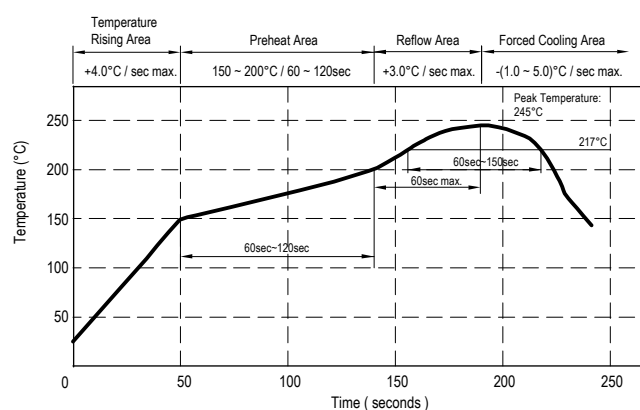
- Iron toroidal core construction
- Enamelled copper wire: H class
- Product weight: 1.00 (1206) / 1.90 (1407)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -55°C~ +125°C
- Operating temp.: -55°C~ +125°C (Temp. rise included)
- Resistance to solder heat: 245°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 245°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Toroid ferrite close magnetic circuit with excellent impedance coupling effect.
- Automatic bifilar or section winding coil assembly into plastic housing for SMT.
- Recommended for reflow soldering PCB assembly.
- Application at communication device, computer peripheral & consumer products.



SF1206/1407-L Series

ELECTRICAL CHARACTERISTICS

■ SF1206-L Series

DWG. No.	Parallel Ratings				Series Ratings			
	L (uH) 1K/0.1V	I _{rms} (A)	L (uH) @ rated I	RDC (Ω) max.	L (uH) 1K/0.1V	I _{rms} (A)	L (uH) @ rated I	RDC (Ω) max.
SF12065R0ML□-□□□	5±20%	2.41	3.8±20%	0.023	20±20%	1.20	15.2±20%	0.092
SF12068R0ML□-□□□	8±20%	1.90	6.1±20%	0.037	32±20%	0.95	23.2±20%	0.150
SF1206100ML□-□□□	10±20%	1.83	7.4±20%	0.040	40±20%	0.92	29.6±20%	0.160
SF1206150ML□-□□□	15±20%	1.45	11.1±20%	0.063	60±20%	0.73	44.4±20%	0.250
SF1206200ML□-□□□	20±20%	1.25	15.2±20%	0.086	80±20%	0.63	60.8±20%	0.340
SF1206250ML□-□□□	25±20%	1.17	18.5±20%	0.098	100±20%	0.59	74.0±20%	0.390
SF1206330ML□-□□□	33±20%	0.98	24.8±20%	0.140	132±20%	0.49	99.2±20%	0.560
SF1206500ML□-□□□	50±20%	0.78	37.5±20%	0.220	200±20%	0.38	150.0±20%	0.880
SF1206680ML□-□□□	68±20%	0.72	49.6±20%	0.260	272±20%	0.36	198.4±20%	1.040
SF1206101ML□-□□□	100±20%	0.58	74.0±20%	0.400	400±20%	0.29	296.0±20%	1.600
SF1206151ML□-□□□	150±20%	0.47	111.0±20%	0.600	600±20%	0.24	444.0±20%	2.400
SF1206201ML□-□□□	200±20%	0.40	150.0±20%	0.840	800±20%	0.20	600.0±20%	3.360
SF1206251ML□-□□□	250±20%	0.33	192.5±20%	1.190	1000±20%	0.17	770.0±20%	4.760
SF1206301ML□-□□□	300±20%	0.32	225.0±20%	1.310	1200±20%	0.16	900.0±20%	5.240

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

3. Electrical specifications at 25°C

4. I_{rms}: base on temp. rise 35°C max.

Note: SF1206500M parallel inductance may change to 51.18uH @ 10kHz/1V.

■ SF1407-L Series

DWG. No.	Parallel Ratings				Series Ratings			
	L (uH) 1K/0.1V	I _{rms} (A)	L (uH) @ rated I	RDC (Ω) max.	L (uH) 1K/0.1V	I _{rms} (A)	L (uH) @ rated I	RDC (Ω) max.
SF14075R0ML□-□□□	5±20%	3.30	3.8±20%	0.019	20±20%	1.65	15.2±20%	0.076
SF14078R0ML□-□□□	8±20%	3.00	5.8±20%	0.024	32±20%	1.50	23.2±20%	0.096
SF1407100ML□-□□□	10±20%	2.70	7.3±20%	0.028	40±20%	1.35	29.2±20%	0.110
SF1407150ML□-□□□	15±20%	2.20	11.0±20%	0.041	60±20%	1.10	44.0±20%	0.160
SF1407200ML□-□□□	20±20%	2.02	14.2±20%	0.049	80±20%	1.01	56.8±20%	0.200
SF1407250ML□-□□□	25±20%	1.91	17.0±20%	0.054	100±20%	0.96	68.0±20%	0.220
SF1407330ML□-□□□	33±20%	1.60	23.1±20%	0.078	132±20%	0.80	92.4±20%	0.310
SF1407500ML□-□□□	50±20%	1.28	35.5±20%	0.120	200±20%	0.64	142.0±20%	0.480
SF1407680ML□-□□□	68±20%	1.19	46.2±20%	0.140	272±20%	0.60	184.8±20%	0.560
SF1407101ML□-□□□	100±20%	0.98	68.0±20%	0.210	400±20%	0.49	272.0±20%	0.840
SF1407151ML□-□□□	150±20%	0.78	103.5±20%	0.320	600±20%	0.39	414.0±20%	1.280
SF1407201ML□-□□□	200±20%	0.65	140.0±20%	0.470	800±20%	0.33	560.0±20%	1.880
SF1407251ML□-□□□	250±20%	0.60	172.5±20%	0.530	1000±20%	0.30	690.0±20%	2.120
SF1407301ML□-□□□	300±20%	0.52	213.0±20%	0.730	1200±20%	0.26	852.0±20%	2.920

1. □ : Packaging information: □ Code

2. "- □□□": Reference code

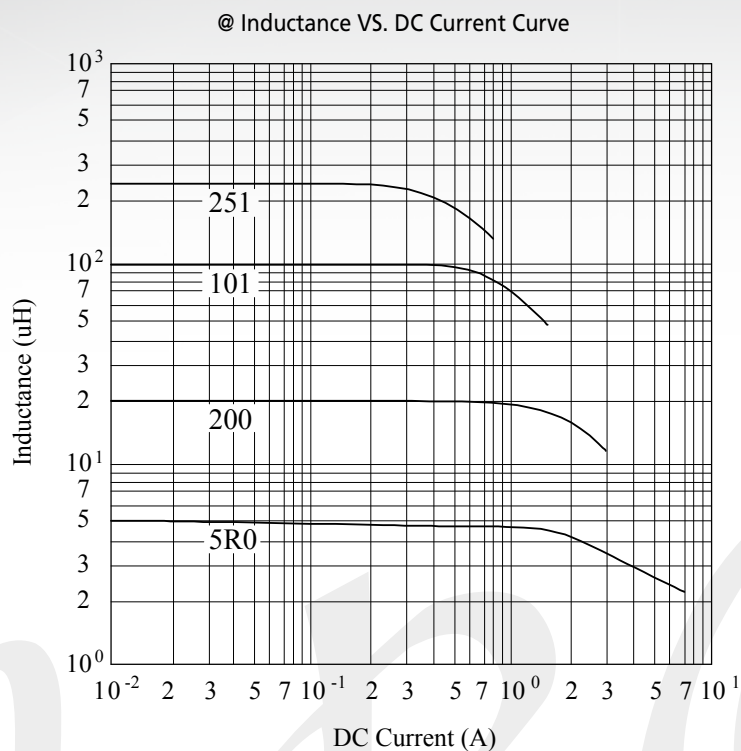
3. Electrical specifications at 25°C

4. I_{rms}: base on temp. rise 35°C max.

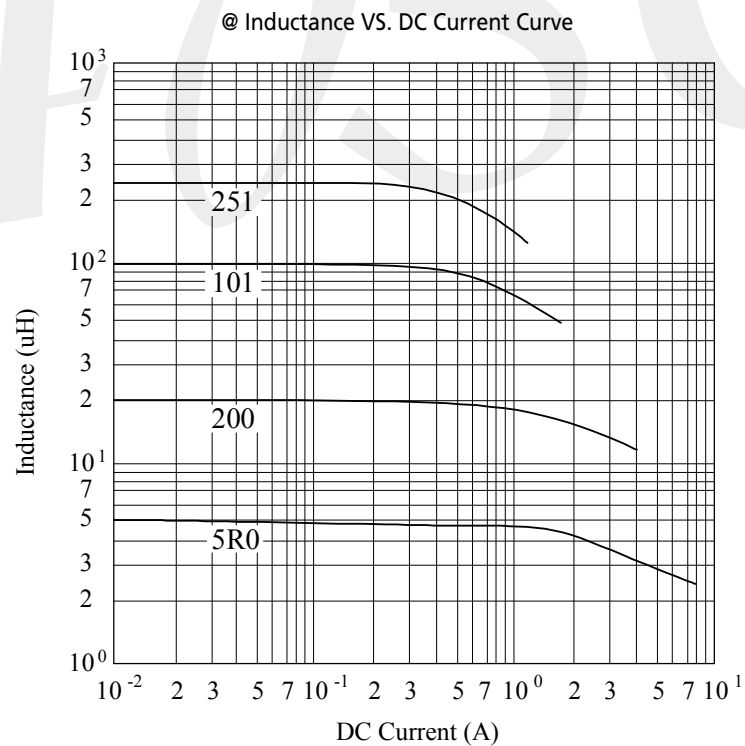
SF1206/1407-L Series

CURVE

■ SF1206-L Series

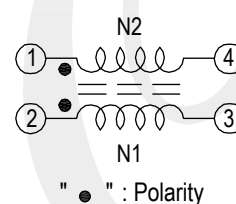
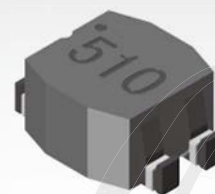
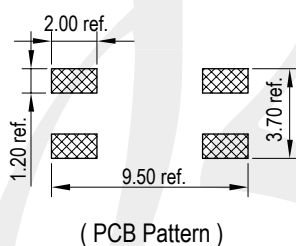
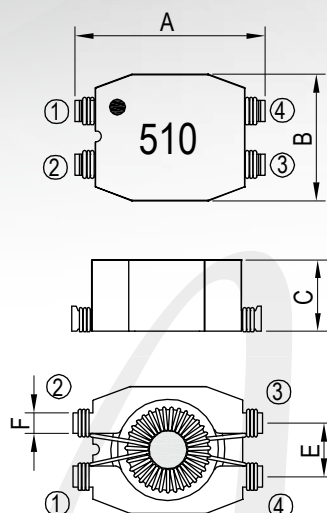


■ SF1407-L Series



CF0904-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	E	F
CF0904-L	9.00±0.30	6.00 max.	3.60±0.20	2.50 typ.	1.00 typ.

DESCRIPTION

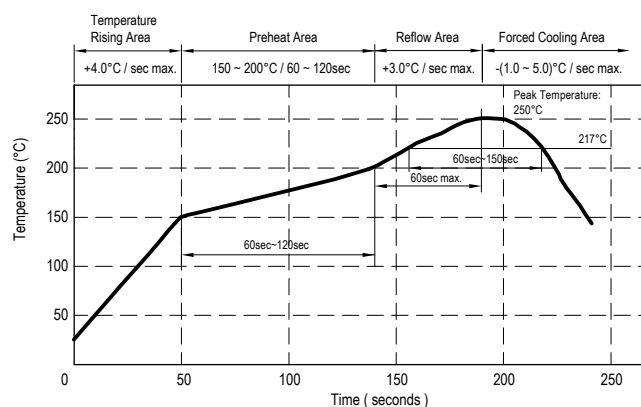
- Ferrite toroidal core construction
- Enamelled copper wire: H class
- Product weight: 0.38g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Toroid ferrite close magnetic circuit with excellent impedance coupling effect.
- Automatic bifilar or section winding coil assembly into ceramic housing for SMT.
- Recommended for reflow soldering PCB assembly.
- Application at communication device, computer peripheral & consumer products.

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +135°C
- Operating temp.: -40°C ~ +135°C (Temp. rise included)
- Resistance to solder heat: 250°C. 10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



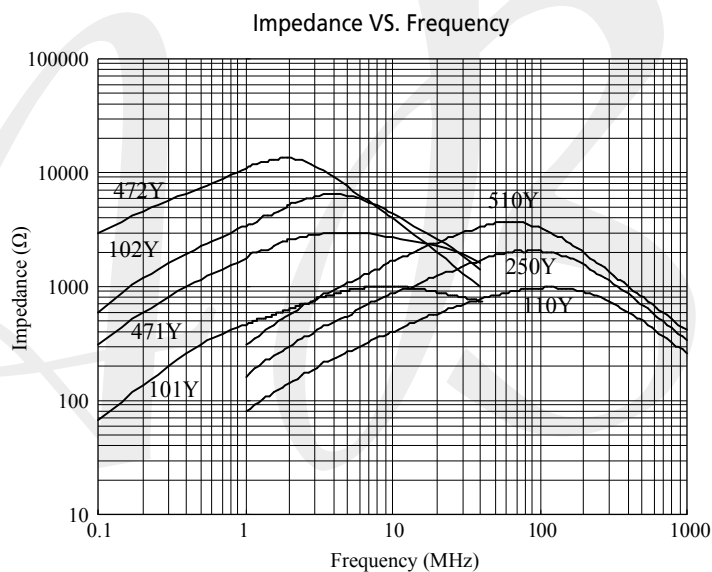
CF0904-L Series

ELECTRICAL CHARACTERISTICS

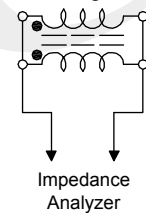
DWG. No.	L (1-4) @ 100kHz, 0.1 Vrms (μ H)	LL (1-4) @ 100kHz, 0.1 Vrms (μ H) typ. (2-3 short)	RDC (Ω) max.	Rated Current max. (A)	Impedance (Ω) min.	Freq. Range (MHz)	Winding
CF0904110YL□-□□□	11.0 $\pm$ 25%	0.05	0.12	0.5	300	20~300	Bifilar
CF0904250YL□-□□□	25.0 $\pm$ 25%	1.50	0.20	0.5	700	20~150	Sector
CF0904510YL□-□□□	51.0 $\pm$ 25%	2.00	0.30	0.5	1500	20~100	Sector
CF0904101YL□-□□□	100.0 $\pm$ 25%	0.85	0.10	0.5	700	3~20	Sector
CF0904471YL□-□□□	470.0 $\pm$ 25%	0.28	0.28	0.5	2000	2~15	Bifilar
CF0904102YL□-□□□	1000.0 $\pm$ 25%	0.29	0.40	0.5	2800	1~10	Bifilar
CF0904472YL□-□□□	4700.0 $\pm$ 25%	0.30	0.70	0.2	6000	0.5~3	Bifilar

- : Packaging information: □ Code
- "- □□□": Reference code
- Electrical specifications at 25°C
- Rated voltage 80 Vdc / 42 Vac
- Hi-Pot (N-N): 250 Vac / 60 Hz, 3 mA / 1sec.
- Temp. rise: 30°C max. at rated current

CURVE

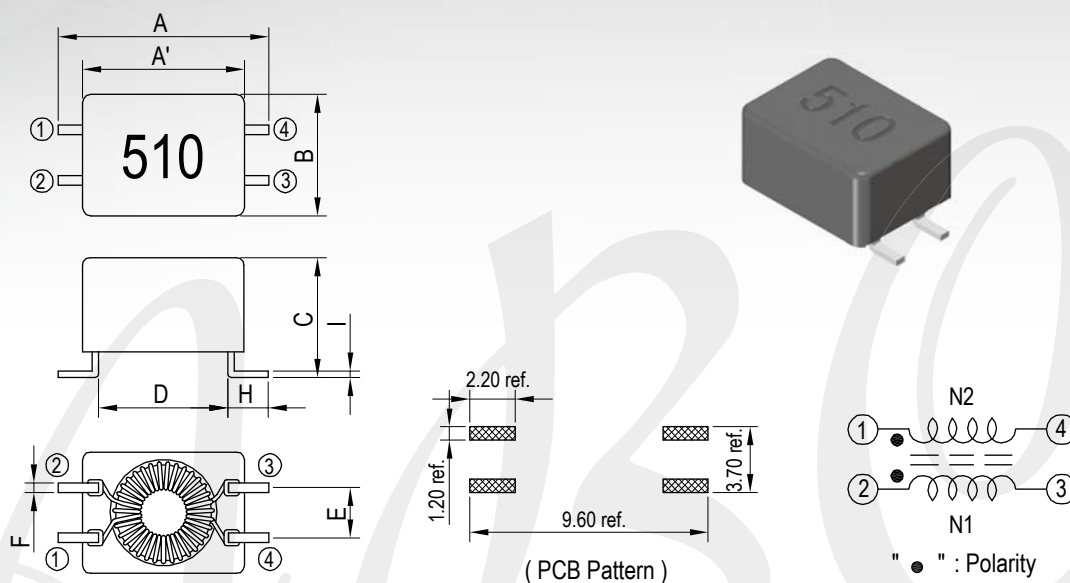


Measuring circuit:



SF0904-P Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	A'	B	C	D	E	F	H	I
SF0904-P	9.00±0.30	7.30 typ.	5.40±0.20	4.70±0.15	5.50 typ.	2.54 typ.	0.50 typ.	1.75 typ.	0.30 typ.

DESCRIPTION

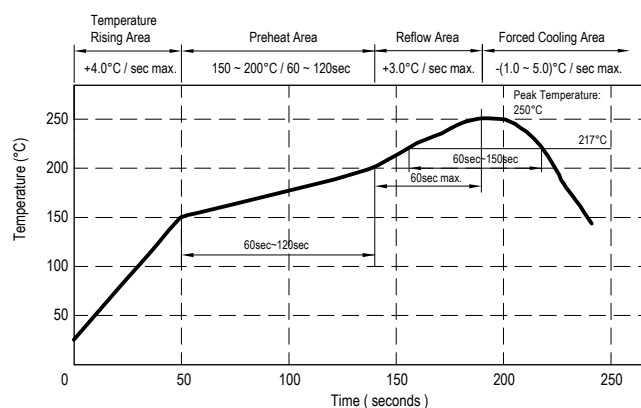
- Ferrite toroidal core construction
- Enamelled copper wire: H class
- Product weight: 0.27g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Toroid ferrite close magnetic circuit with excellent impedance coupling effect.
- Automatic bifilar or section winding coil assembly into plastic housing for SMT.
- Recommended for reflow soldering PCB assembly.
- Application at communication device, computer peripheral & consumer products.

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +105°C
- Operating temp.: -40°C ~ +105°C (Temp. rise included)
- Resistance to solder heat: 250°C. 10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



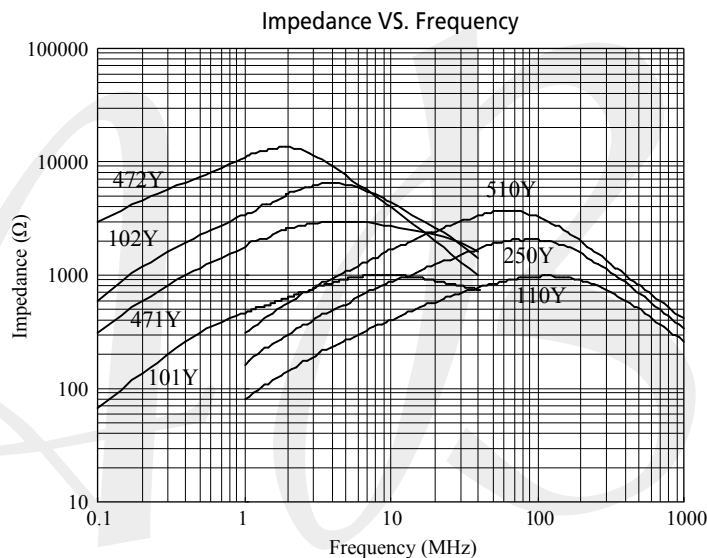
SF0904-P Series

ELECTRICAL CHARACTERISTICS

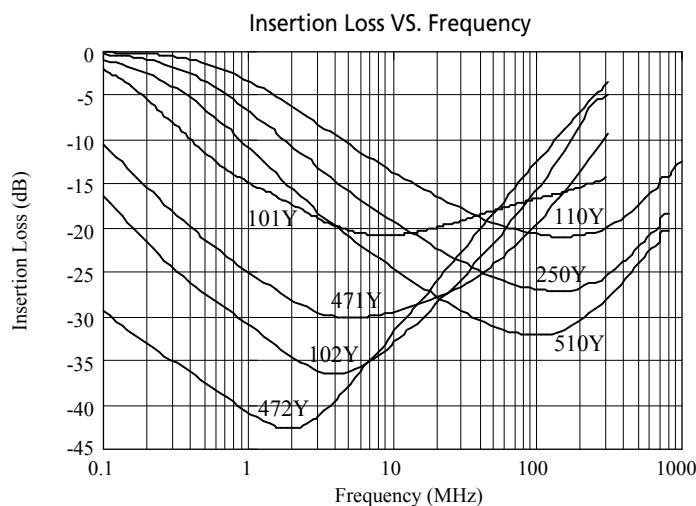
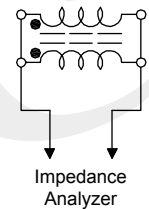
DWG. No.	L (1-4) @ 100kHz, 0.1 Vrms (μ H)	LL (1-4) @ 100kHz, 0.1 Vrms (μ H) typ. (2-3 short)	RDC (Ω) max.	Rated Current max. (A)	Impedance (Ω) min.	Freq. Range (MHz)	Winding
SF0904110YP□-□□□	11.0 $\pm$ 25%	0.05	0.12	0.5	300	20~300	Bifilar
SF0904250YP□-□□□	25.0 $\pm$ 25%	1.50	0.20	0.5	700	20~150	Sector
SF0904510YP□-□□□	51.0 $\pm$ 25%	2.00	0.30	0.5	1500	20~100	Sector
SF0904101YP□-□□□	100.0 $\pm$ 25%	0.85	0.10	0.5	700	3~20	Sector
SF0904471YP□-□□□	470.0 $\pm$ 25%	0.28	0.28	0.5	2000	2~15	Bifilar
SF0904102YP□-□□□	1000.0 $\pm$ 25%	0.29	0.40	0.5	2800	1~10	Bifilar
SF0904472YP□-□□□	4700.0 $\pm$ 25%	0.30	0.70	0.2	6000	0.5~3	Bifilar

- : Packaging information: □ Code
- "- □□□": Reference code
- Electrical specifications at 25°C
- Rated voltage 80 Vdc / 42 Vac
- Hi-Pot (N-N): 250 Vac / 60 Hz, 3 mA / 1sec.
- Rated current base on Temp. rise 30°C max.

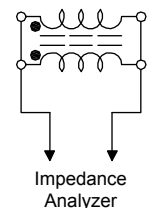
CURVE



Measuring circuit :

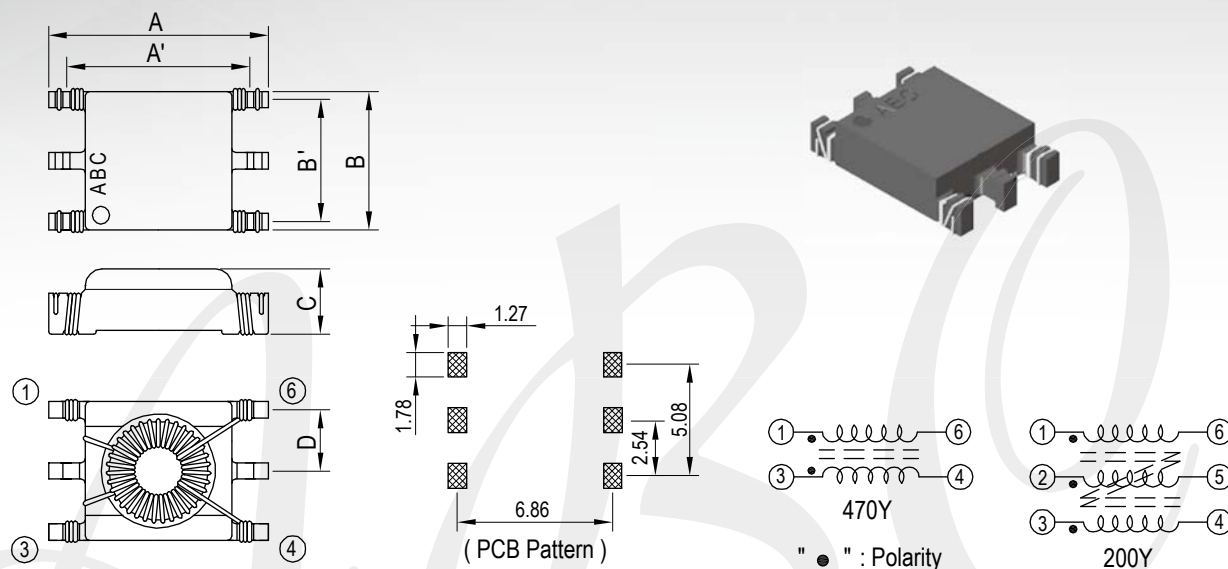


Measuring circuit :



SF0903-2 Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	A'	B	B'	C	D
SF0903-2	9.20 max.	7.24 typ.	6.60 max.	5.08 typ.	2.50 max.	2.54 typ.

DESCRIPTION

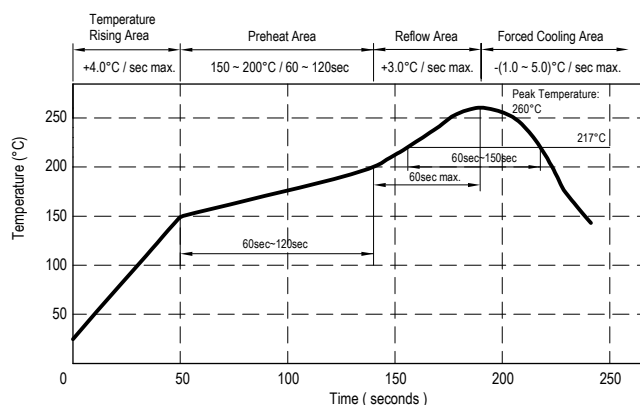
- Ferrite toroidal core construction
- Enamelled copper wire: H class
- Product weight: 0.20g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Toroid ferrite close magnetic circuit with excellent impedance coupling effect.
- Automatic bifilar or section winding coil assembly into plastic housing for SMT.
- Recommended for reflow soldering PCB assembly.
- Application at communication device, computer peripheral & consumer products.

GENERAL SPECIFICATION

- Storage temp.: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- Operating temp.: $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$ (Temp. rise included)
- Resistance to solder heat: 260°C . 10 secs.
- Recommended IR Reflow:
 - Peak Temp: 260°C max.
 - Max. Peak Temp - 5°C : 30sec max.
 - Max time above 217°C : 60sec~150sec max.



SF0903-2 Series

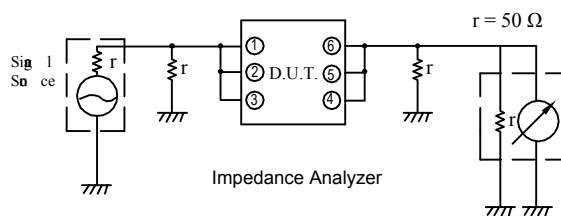
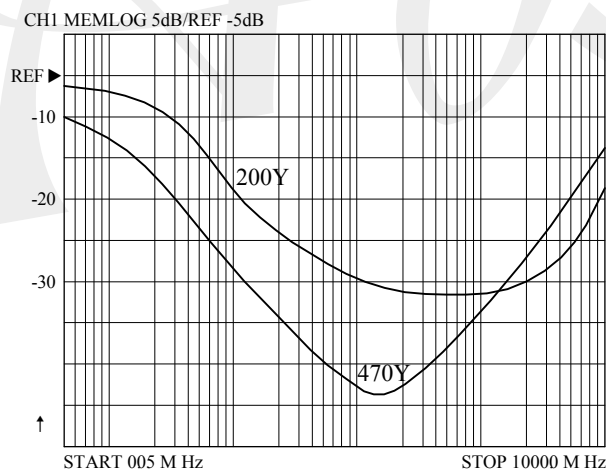
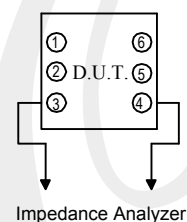
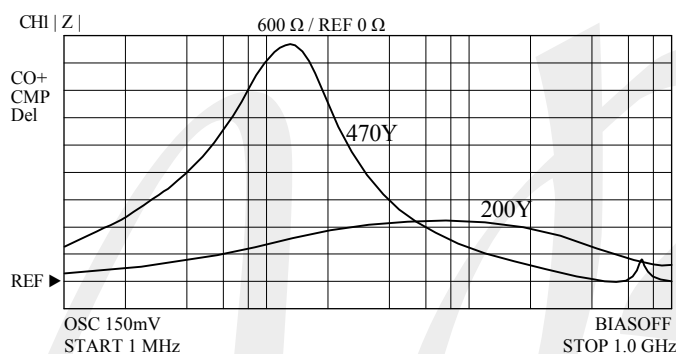
ELECTRICAL CHARACTERISTICS

DWG. No.	L (μ H) 100k/0.1V	LL (μ H) 100k/0.02V	C (pF) 100k/0.02V	RDC (Ω) max.	Turns Ratio	Insertion Loss		Impedance (z)		HI-POT N-N
						Freq. range (MHz)	dB	Freq. range (MHz)	min (Ω)	
SF0903470Y2B-□□□	47.0 min.	0.18+0	20+0	0.4	1:1	1~100	20 ⁻⁰	10~30	1000	500 Vac 60 Hz 1 mA 1 min.
SF0903200Y2B-□□□	20.0 min.	0.10+0	18+0	0.4	1:1:1	30~300	20 ⁻⁰	30~100	800	

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C

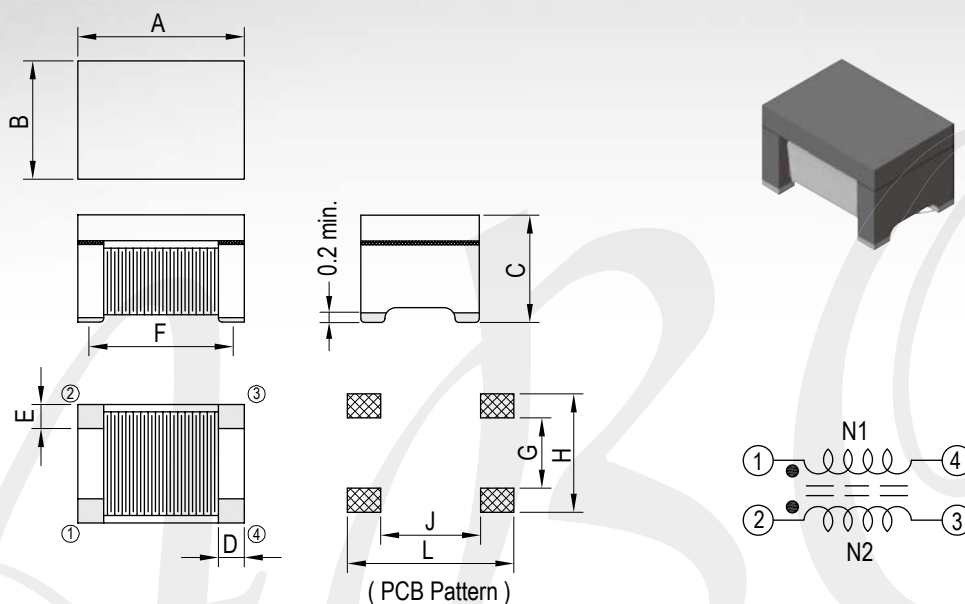
CURVE

Impedance VS. Frequency



SF4532-F Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	J	L
SF4532-F	4.50±0.20	3.20±0.20	3.00 max.	0.70 ref.	0.65 ref.	3.80 ref.	1.60 ref.	3.40 ref.	3.20 ref.	5.90 ref.

DESCRIPTION

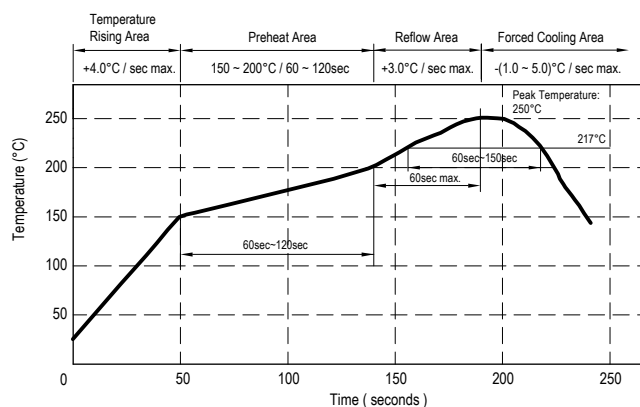
- Ferrite drum core construction
- Magnetically shielded
- Enamelled copper wire: H class
- Product weight: 0.15g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Close magnetic circuit with common mode winding.
- Automatic bifilar winding & core assembly excellent impedance coupling effect.
- Recommended for reflow soldering PCB assembly.
- Compact size application at communication device computer peripheral & consumer products.

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C. 10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



SF4532-F Series

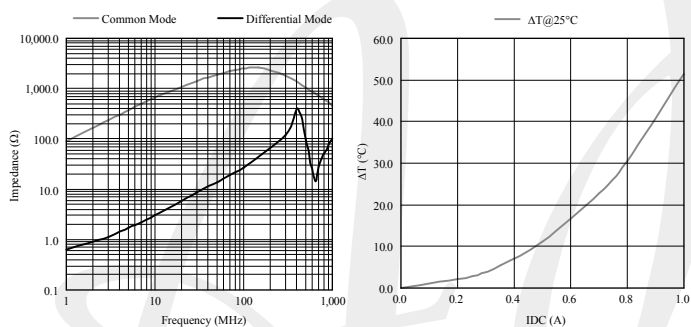
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Lstray (μ H) typ.	RDC (Ω) max.	IDC (A) max.	Common mode impedance (k Ω) @ 10MHz	
					min.	typ.
SF4532110YFB-□□□	11.0 +50% -30%	0.10	0.50	0.36	0.30	0.60
SF4532220YFB-□□□	22.0 +50% -30%	0.15	0.60	0.31	0.60	1.20
SF4532510YFB-□□□	51.0 +50% -30%	0.25	1.00	0.23	1.50	3.50
SF4532101YFB-□□□	100.0 +50% -30%	0.30	1.50	0.20	3.00	7.50
SF4532201YFB-□□□	200.0 +50% -30%	0.45	4.50	0.10	5.00	11.00

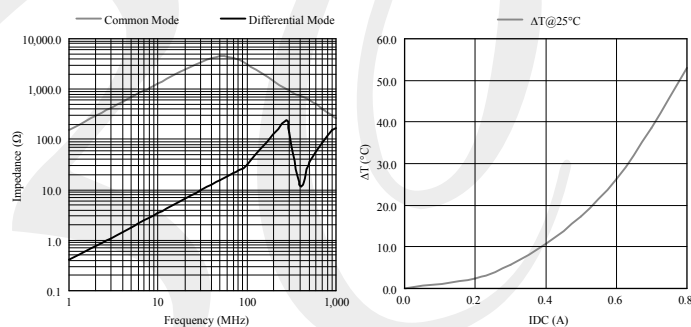
1. □ : Packaging information: □ Code
2. "-□□□": Reference code
3. Electrical specifications at 25°C
4. Inductance Test Condition.: 100kHz / 0.1V
5. IDC base on Temp. rise 40°C max.
6. Insulation resistance: 10M Ω min.
7. Rated voltage: 50Vdc

CURVE

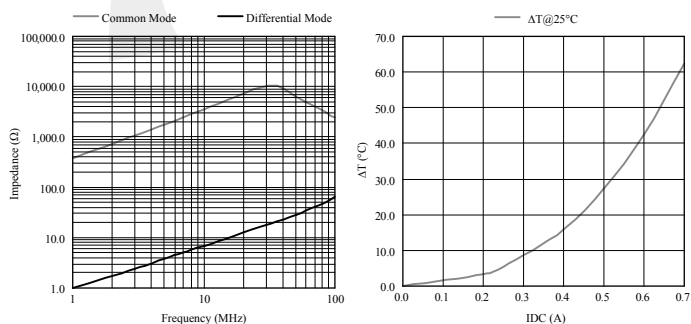
SF4532110YFB



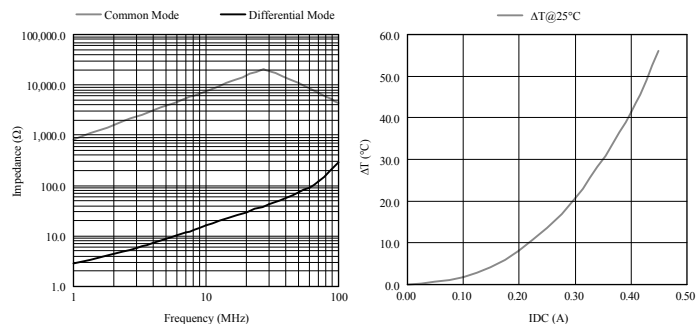
SF4532220YFB



SF4532510YFB

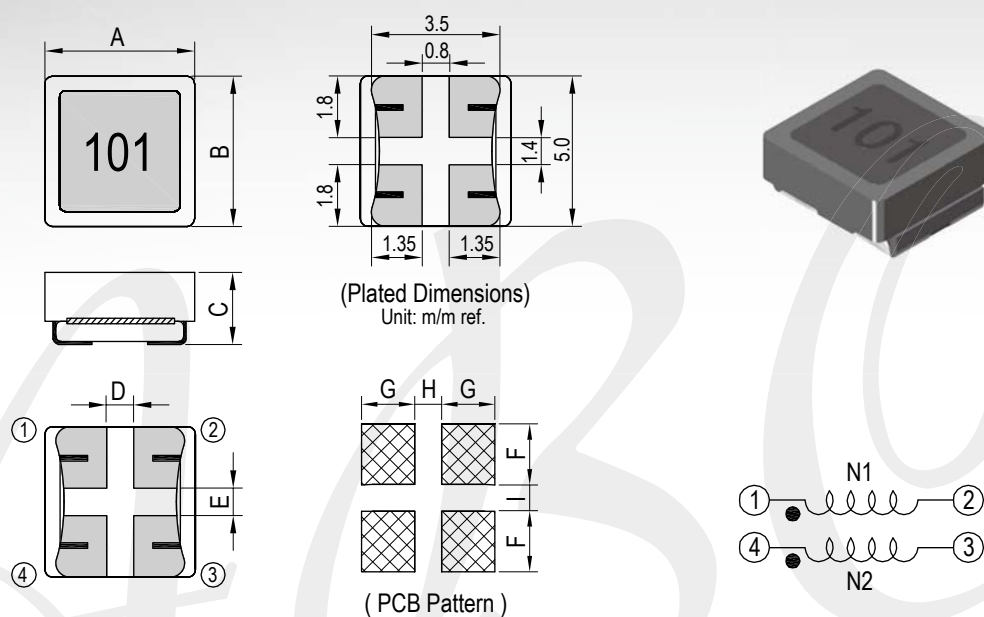


SF4532101YFB



SF0502-L Series

CONFIGURATION & DIMENSIONS



Series	A	B	C	D	E	F	G	H	I
SF0502-L	5.00±0.30	5.00±0.30	2.50 max.	0.80 typ.	1.00 typ.	2.30 typ.	1.60 ref.	0.80 ref.	1.00 ref.

DESCRIPTION

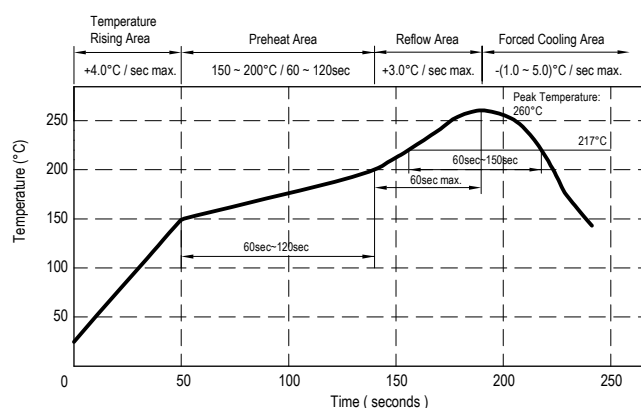
- Ferrite drum core construction.
- Magnetically shielded
- Enamelled copper wire: H class
- Product weight: 0.20g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Drum ferrite + shielded ring make close magnetic circuit & low leakage for high density PCB assembly.
- Bifilar winding with excellent impedance coupling effect for common mode filter application.
- Recommended for reflow soldering PCB assembly.
- Application at communication device, computer peripheral & consumer products.

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 260°C. 10 secs.
- Recommended IR Reflow:
 - Peak Temp: 260°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



SF0502-L Series

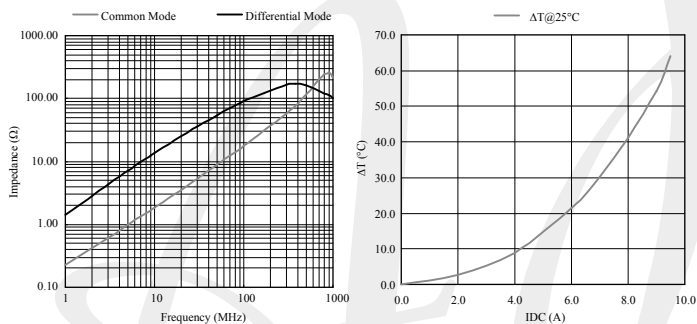
ELECTRICAL CHARACTERISTICS

DWG. No.	Common mode impedance (at 100MHz) (k Ω)	Inductance (uH) ref.	IDC (A) typ.	RDC (m Ω) max.	Impedance (k Ω)	Freq. range (MHz)
SF0502101YL□-□□□	0.10 $\pm$ 35%	0.23	6.0	15	0.06 min.	90 ~ 900
SF0502251YL□-□□□	0.25 $\pm$ 35%	0.55	5.0	20	0.12 min.	80 ~ 700
SF0502501YL□-□□□	0.50 $\pm$ 35%	1.10	4.0	30	0.20 min.	60 ~ 300
SF0502102YL□-□□□	1.00 $\pm$ 35%	2.50	2.0	45	0.40 min.	50 ~ 200
SF0502142YL□-□□□	1.40 $\pm$ 35%	2.60	1.5	55	0.45 min.	40 ~ 160

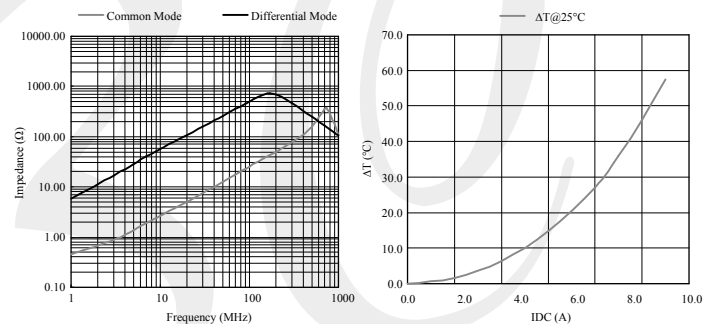
1. □ : Packaging information: □ Code
2. "- □□□": Reference code
3. Electrical specifications at 25°C
4. Inductance Test Condition.: 100kHz / 0.1V
4. Rated voltage 50 Vdc
6. Withstand Voltage 125Vdc
7. Insulation Resistance 10M Ω min.
8. IDC base on Temp. rise 40°C typ.

CURVE

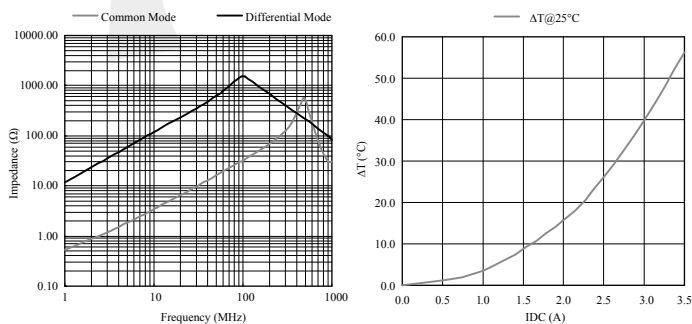
SF0502101YLB



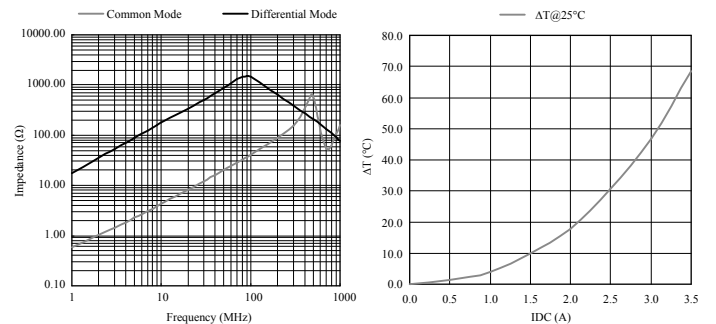
SF0502501YLB



SF0502102YLB

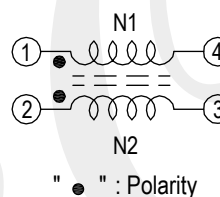
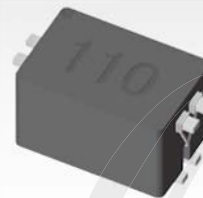
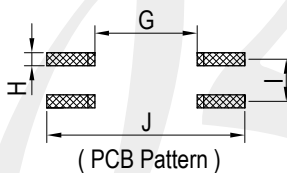
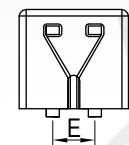
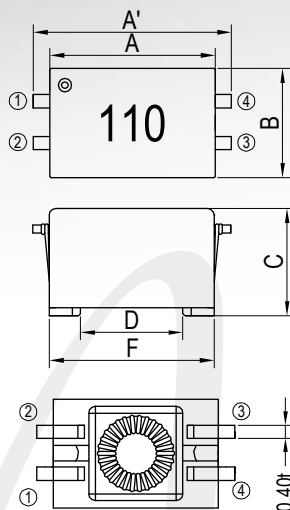


SF0502142YLB



SF0503-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A'	A	B	C	D	E	F	G	H	I	J
SF0503-L	6.00±0.30	5.00±0.30	3.30±0.30	3.30±0.20	3.10 typ.	1.27 typ.	5.00 typ.	2.70 typ.	0.60 ref.	1.27 ref.	6.40 ref.

DESCRIPTION

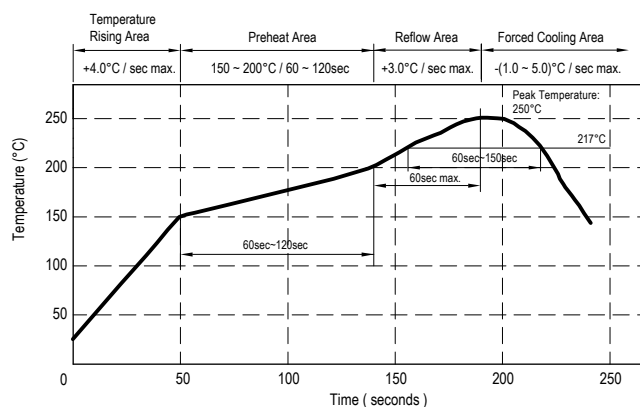
- Ferrite toroidal core construction
- Enamelled copper wire: H class
- Product weight: 0.10g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Toroid ferrite close magnetic circuit with excellent impedance coupling effect.
- Automatic bifilar or section winding coil assembly into plastic housing for SMT.
- Recommended for reflow soldering PCB assembly.
- Application at communication device, computer peripheral & consumer products.

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +105°C (Temp. rise included)
- Resistance to solder heat: 250°C. 10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



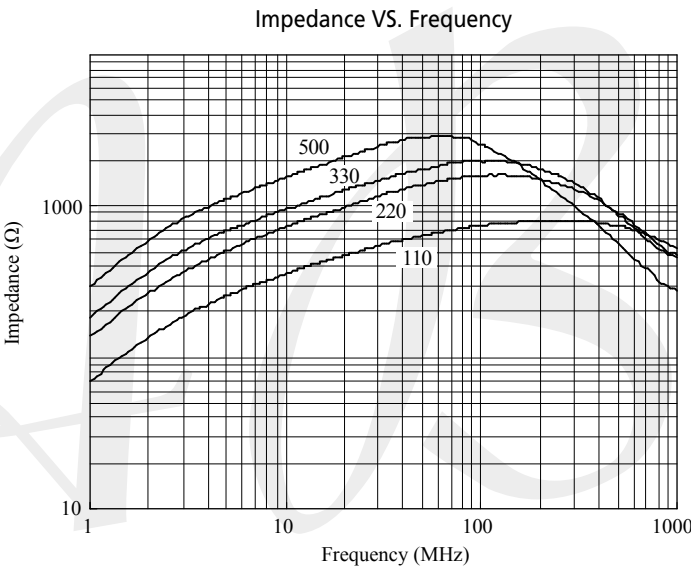
SF0503-L Series

ELECTRICAL CHARACTERISTICS

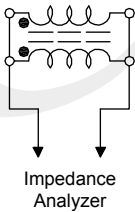
DWG. No.	L1, L2 @ 10kHz, 0.1 Vrms (μH)	Freq. range (MHz)	Impedance min. (Ω)	RDC (Ω) (Each Winding)		Rated Current (mA) max.
				max.	typ.	
SF0503110YL□-□□□	11.0 +50% -30%	100~400	450	0.18	0.13	100
SF0503220YL□-□□□	22.0 +50% -30%	40~250	900	0.23	0.17	100
SF0503330YL□-□□□	33.0 +50% -30%	30~180	1000	0.27	0.20	100
SF0503500YL□-□□□	50.0 +50% -30%	20~60	1200	0.32	0.24	100

- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C
- Rated voltage 50 Vdc / 100 Vdc(ref.)
- Hi-Pot (N-N): 500 Vac / 60 Hz, 3 mA / 1sec.
- Rated current base on Temp. rise 25°C max.

CURVE

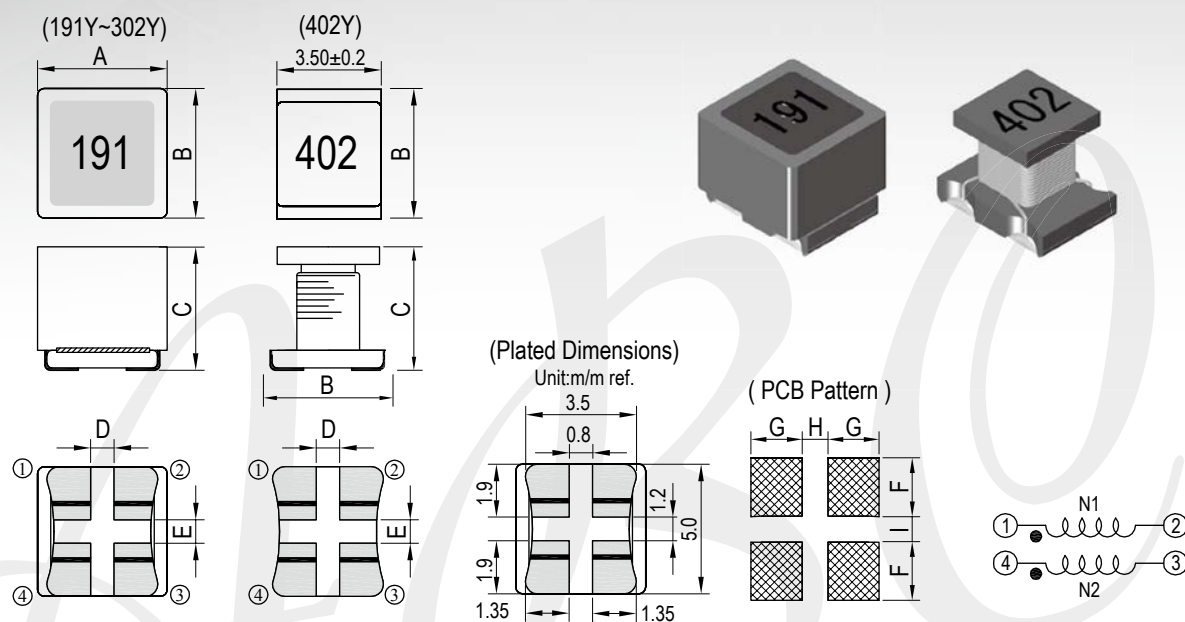


Measuring circuit :



SF0504-L Series

CONFIGURATION & DIMENSIONS



Series	A	B	C (191Y~351Y)	C (102Y~402Y)	D	E	F	G	H	I
SF0504-L	4.80±0.20	5.00±0.20	4.80 max.	4.70 max.	0.80 typ.	1.20 typ.	2.30 ref.	1.60 ref.	0.80 ref.	1.00 ref.

DESCRIPTION

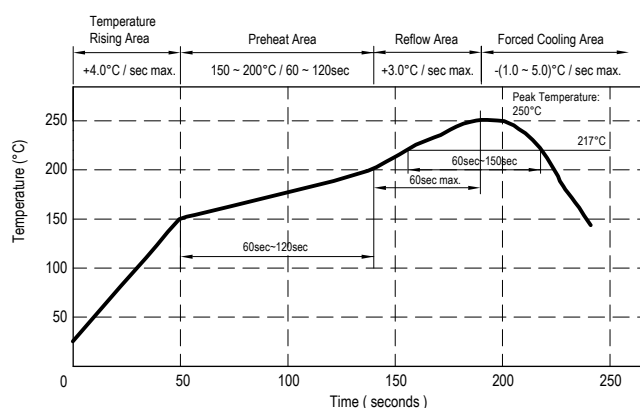
- Ferrite drum core construction
- Enamelled copper wire: H class
- Product weight: 0.35g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Drum ferrite + shielded ring make close magnetic circuit & low leakage for high density PCB assembly.
- Bifilar winding with excellent impedance coupling effect for common mode filter application.
- Recommended for reflow soldering PCB assembly.
- Application at communication device, computer peripheral & consumer products.

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +125°C
- Operating temp.: -40°C ~ +125°C (Temp. rise included)
- Resistance to solder heat: 250°C. 10 secs.
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



SF0504-L Series

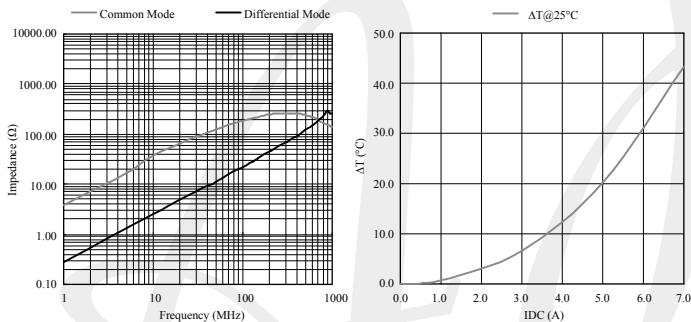
ELECTRICAL CHARACTERISTICS

DWG. No.	Common mode impedance (at 100MHz, 20 degree C) (k Ω)	Inductance (uH) ref.	IDC (mA) typ.	RDC (m Ω) max.	Impedance (k Ω)	Freq. range (MHz)
SF0504191YL□-□□□	0.19 $\pm$ 35%	0.60	5000	20.0	0.1 min.	100 ~ 700
SF0504351YL□-□□□	0.35 $\pm$ 35%	1.10	2000	40.0	0.2 min.	90 ~ 400
SF0504102YL□-□□□	1.00 $\pm$ 35%	2.70	1500	60.0	0.4 min.	50 ~ 300
SF0504152YL□-□□□	1.50 $\pm$ 35%	3.60	1000	100.0	0.6 min.	40 ~ 200
SF0504302YL□-□□□	3.00 $\pm$ 50%	6.00	500	200.0	0.9 min.	30 ~ 150
SF0504402YL□-□□□	4.00 $\pm$ 50%	2.80	200	300.0	2.0 min.	80 ~ 160

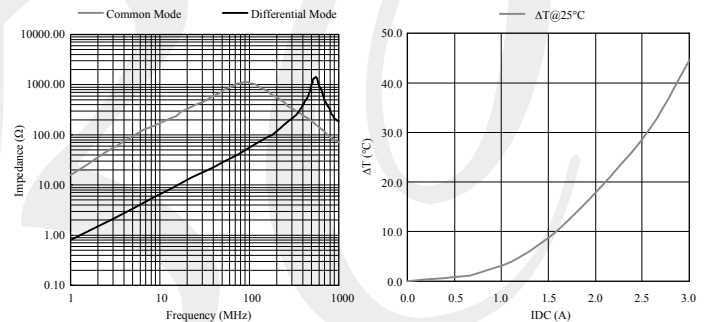
- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C
- Rated voltage 50 Vdc
- Withstand Voltage 125Vdc
- Insulation Resistance 10M Ω min.
- Inductant test Freq.:100kHz / 0.1V
- IDC base on Temp. rise 40°C typ.

CURVE

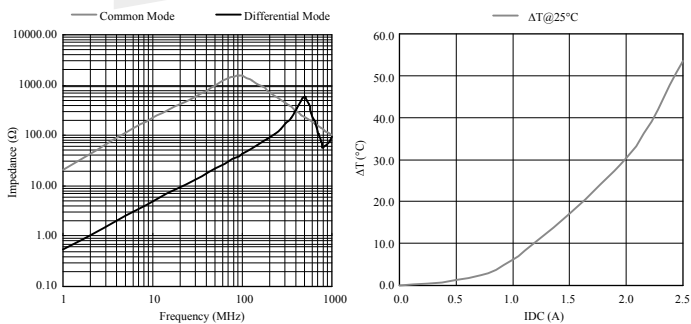
SF0504191YLB



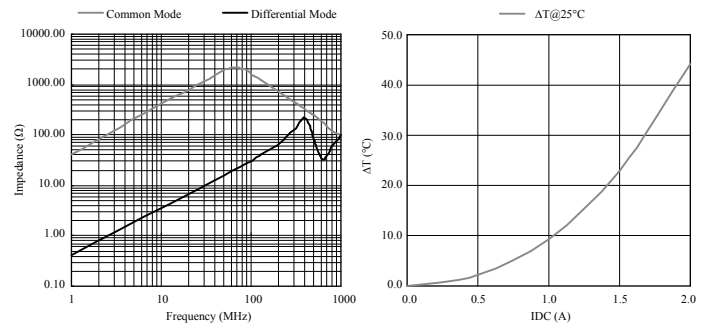
SF0504102YLB



SF0504152YLB

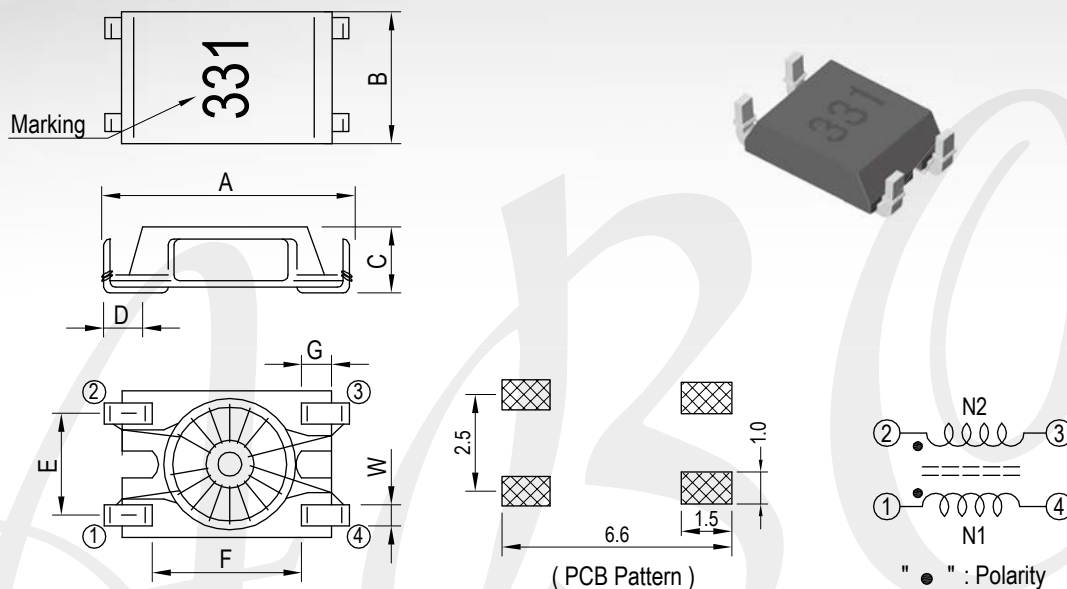


SF0504302YLB



SF0602-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	W
SF0602-L	6.50 max.	3.60±0.15	1.65±0.15	0.90 min.	2.50±0.10	3.40±0.20	0.80 max.	0.55±0.10

DESCRIPTION

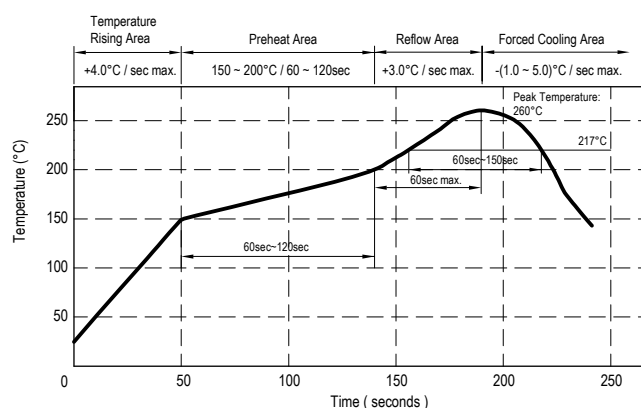
- Ferrite toroidal core construction
- Enamelled copper wire: H class
- Product weight: 0.06g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Toroid ferrite close magnetic circuit with excellent impedance coupling effect.
- Automatic bifilar or section winding coil assembly into plastic housing for SMT.
- Recommended for reflow soldering PCB assembly.
- Application at communication device, computer peripheral & consumer products.

GENERAL SPECIFICATION

- Storage temp.: -40°C ~ +105°C
- Operating temp.: -40°C ~ +105°C (Temp. rise included)
- Resistance to solder heat: 260°C.10 secs.
- Recommended IR Reflow:
 - Peak Temp: 260°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



SF0602-L Series

ELECTRICAL CHARACTERISTICS

DWG. No.	L (μ H)	L-L (μ H) max.	RDC (Ω) max. N1=N2	Rated current (mA)	HI-POT Test	Impedance (Z)	
						Freq. range MHz	min (Ω)
SF0602100YL□-□□□	10 $\pm$ 50%	1.0	0.24	300	250 Vac 60 Hz 3 mA 1 minute	35 ~ 570	600
SF0602470YL□-□□□	47 $\pm$ 50%	4.0	0.16	300		4 ~ 1600	140
SF0602820YL□-□□□	82 $\pm$ 50%	4.0	0.20	300		3 ~ 850	220
SF0602101YL□-□□□	100 $\pm$ 50%	8.0	0.22	300		3 ~ 660	260
SF0602181YL□-□□□	180 $\pm$ 50%	8.0	0.25	300		3 ~ 250	500
SF0602221YL□-□□□	220 $\pm$ 50%	10.0	0.28	300		3 ~ 210	600
SF0602331YL□-□□□	330 $\pm$ 50%	10.0	0.30	300		3 ~ 120	900

1. □ : Packaging information: □ Code

2. "-□□□": Reference code

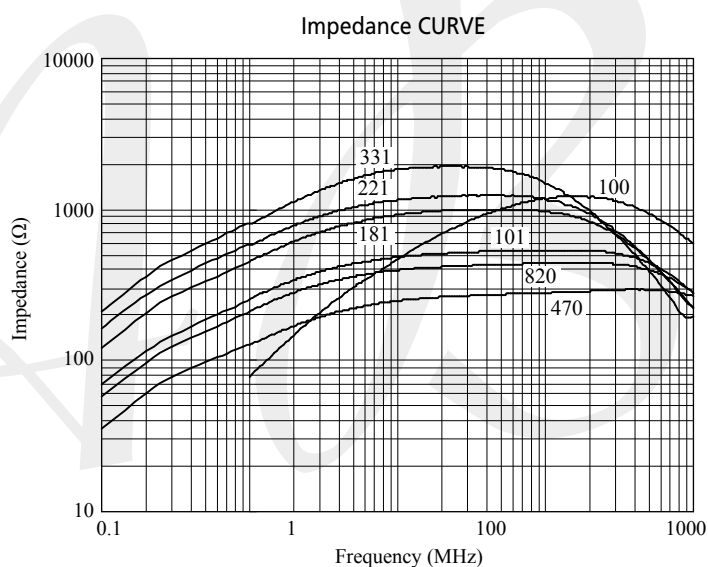
3. Electrical specifications at 25°C

4. Inductance Test Freq. at 10kHz / 20mV

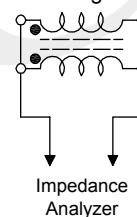
5. Nominal voltage : 60Vdc

6. Rated current base on Temp. rise 20°C max.

CURVE

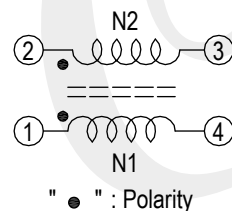
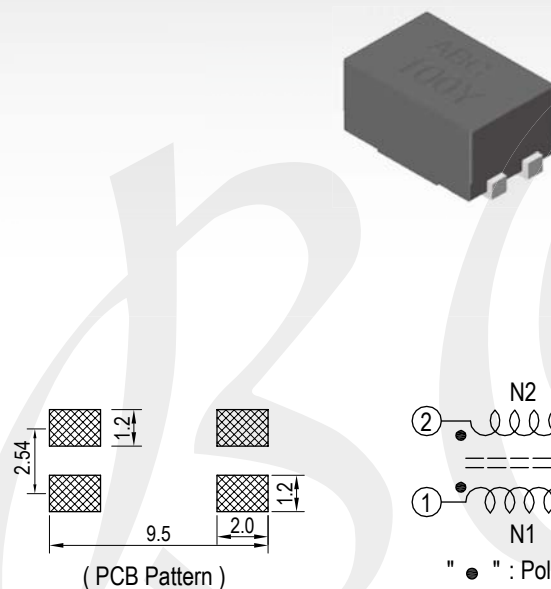
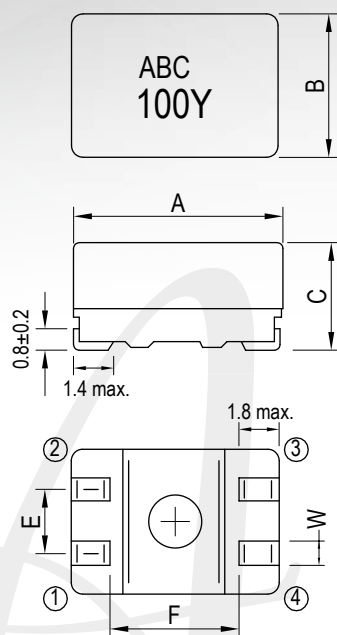


Measuring circuit :



SF0905-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	E	F	W
SF0905-L	9.20±0.30	6.00±0.30	5.00±0.30	2.54±0.20	5.70 ref.	1.00±0.10

DESCRIPTION

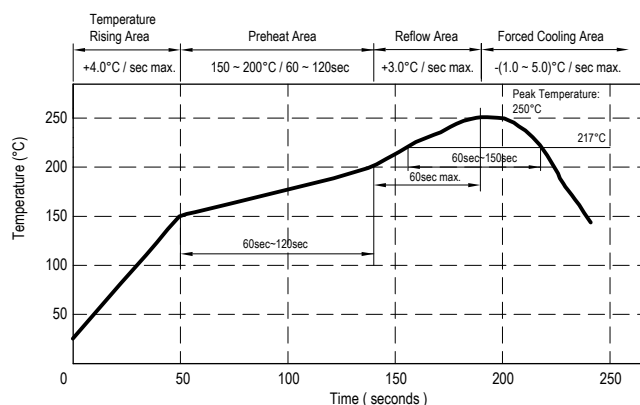
- Ferrite toroidal core construction
- Enamelled copper wire: H class
- Product weight: 0.42g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Toroid ferrite close magnetic circuit with excellent impedance coupling effect.
- Automatic bifilar or section winding coil assembly into plastic housing for SMT.
- Recommended for reflow soldering PCB assembly.
- Application at communication device, computer peripheral & consumer products.

GENERAL SPECIFICATION

- Storage temp.: -40°C~+105°C
- Operating temp.: -40°C~+105°C (Temp. rise included)
- Recommended IR Reflow:
 - Peak Temp: 250°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



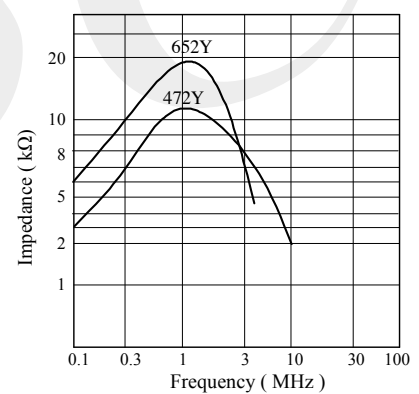
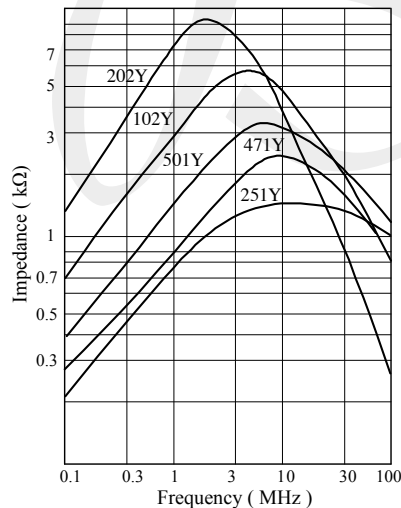
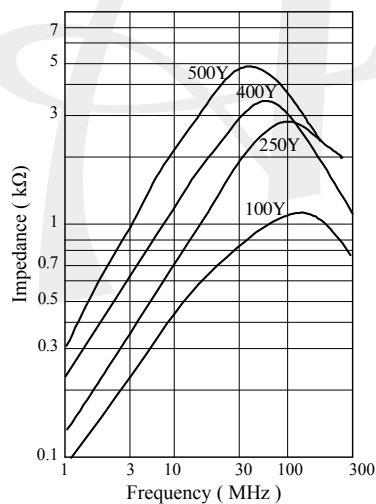
SF0905-L Series

ELECTRICAL CHARACTERISTICS

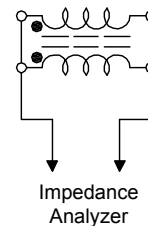
DWG. No.	Inductance L1 , L2 (μ H)	Test condition	DC Resistance N1 , N2 (Ω)	Nominal Voltage Vdc (V)	Rated current (A)	Impedance (Ω)	Freq. Range (MHz)
SF0905100YL□-□□□	10 $\pm$ 30%	0.1V,1kHz	0.08 max.	80	1.6	200 min.	20 ~ 300
SF0905250YL□-□□□	25 $\pm$ 30%	0.1V,1kHz	0.16 max.	80	1.0	600 min.	20 ~ 150
SF0905400YL□-□□□	40 $\pm$ 30%	0.1V,1kHz	0.25 max.	80	0.9	800 min.	20 ~ 100
SF0905500YL□-□□□	50 $\pm$ 30%	0.1V,1kHz	0.32 max.	80	0.8	1500 min.	20 ~ 100
SF0905251YL□-□□□	250 $\pm$ 50%	5mV,100kHz	0.13 max.	80	1.2	600 min.	3 ~ 20
SF0905471YL□-□□□	470 $\pm$ 50%	5mV,100kHz	0.14 max.	80	1.1	1000 min.	2 ~ 20
SF0905501YL□-□□□	500 $\pm$ 50%	5mV,100kHz	0.15 max.	80	1.0	1000 min.	1 ~ 20
SF0905102YL□-□□□	1000 $\pm$ 50%	5mV,100kHz	0.31 max.	80	0.8	1500 min.	1 ~ 15
SF0905202YL□-□□□	2000 $\pm$ 50%	5mV,100kHz	0.42 max.	80	0.6	3000 min.	1 ~ 5
SF0905472YL□-□□□	4700 $\pm$ 50%	5mV,100kHz	0.90 max.	80	0.4	4000 min.	0.3 ~ 3
SF0905652YL□-□□□	6500 $\pm$ 50%	5mV,100kHz	1.05 max.	80	0.3	5000 min.	0.3 ~ 2

1. □ : Packaging information: □ Code
2. "-□□□": Reference code
3. Electrical specifications at 25°C
4. Irms base on Temp. rise 45°Cmax.
5. Hi-Pot test (N1-N2): 500Vac / 60Hz , 3mA , 3sec.

CURVE

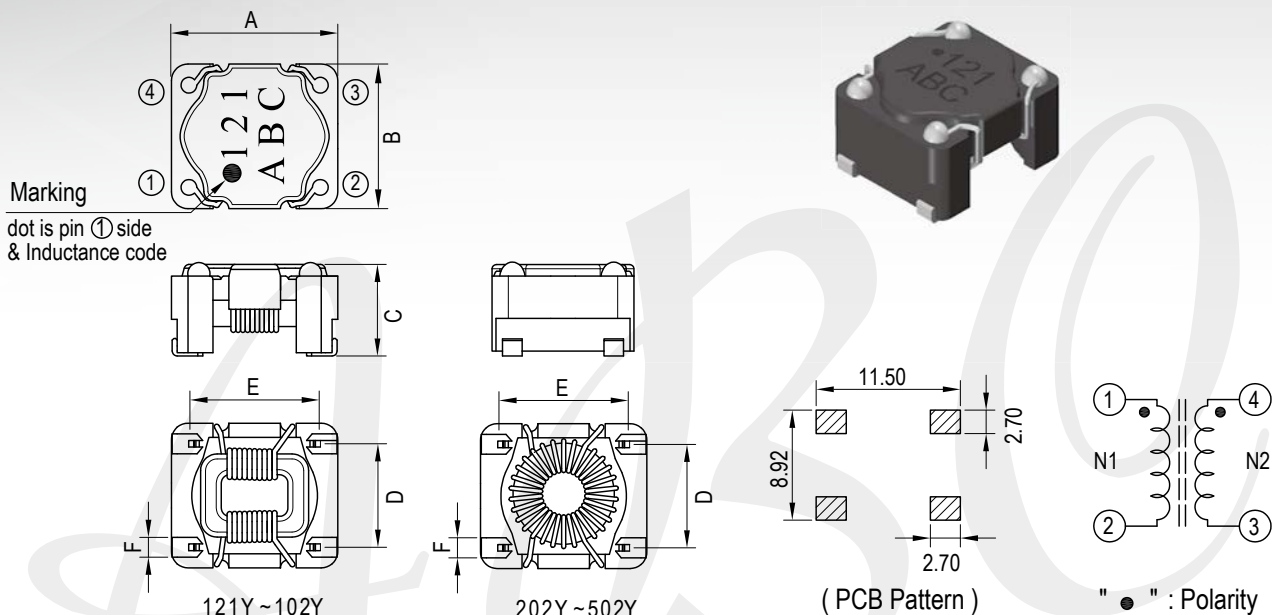


Measuring circuit :



SF1065-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F
SF1065-L	10.00±0.50	8.70±0.30	6.50 max.	6.22±0.10	7.62±0.10	1.40 ref.

DESCRIPTION

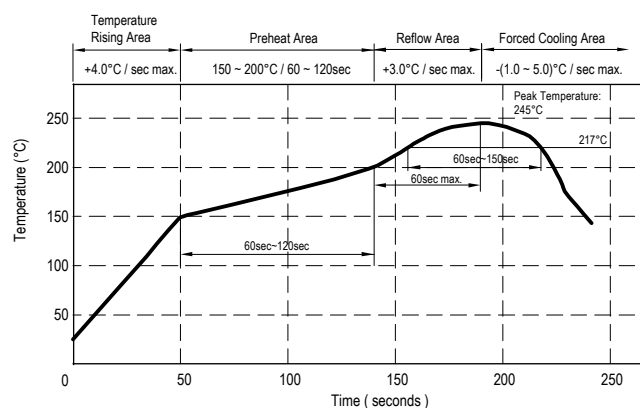
- Ferrite toroidal core construction
- Enamelled copper wire: H class
- Product weight: 0.79g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -25°C~+85°C
- Operating temp.: -20°C~+80°C (Temp. rise included)
- Resistance to solder heat 245°C. 10 secs.
- Recommended IR Reflow:
Peak Temp: 245°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Toroid ferrite close magnetic circuit with excellent impedance coupling effect.
- Automatic bifilar or section winding coil assembly into plastic housing for SMT.
- Recommended for reflow soldering Pcb assembly.
- Application at communication device, computer peripheral & consumer products.



SF1065-L Series

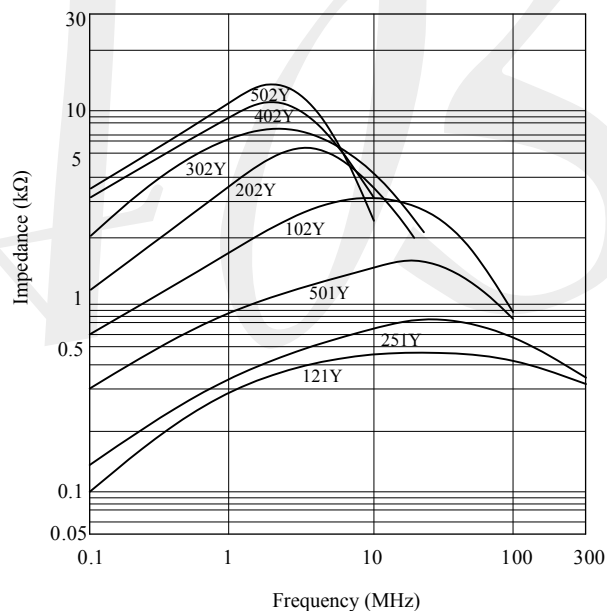
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance L1, L2 (μ H)	RDC (Ω) max.	IDC (A) max.	Nominal voltage (V) Vdc	Impedance (Z)	
					Freq. range (MHz)	min. (Ω)
SF1065121YL□-□□□	120 $\pm$ 40%	0.025	1.40	50	10 ~ 200	200
SF1065251YL□-□□□	250 $\pm$ 40%	0.035	1.19	50	5 ~ 100	400
SF1065501YL□-□□□	500 $\pm$ 40%	0.070	0.84	50	2 ~ 50	800
SF1065102YL□-□□□	1000 $\pm$ 40%	0.180	0.52	50	1 ~ 40	1400
SF1065202YL□-□□□	2000 $\pm$ 40%	0.270	0.40	50	0.5 ~ 15	2000
SF1065302YL□-□□□	3000 $\pm$ 40%	0.330	0.35	50	0.5 ~ 10	3000
SF1065402YL□-□□□	4000 $\pm$ 40%	0.550	0.30	50	0.5 ~ 5	4000
SF1065502YL□-□□□	5000 $\pm$ 40%	0.620	0.25	50	0.5 ~ 3	5000

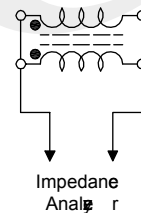
- : Packaging information: □ Code
- "- □□□": Reference code
- Electrical specifications at 25°C
- Inductance Test Condition.: 100kHz / 0.1V

- IDC base on Temp. rise 45°C max.
- Hi-pot test: AC 1000V / 60Hz / 3mA / 1min. (121Y~102Y)
AC 300V / 60Hz / 3mA / 1 min. (202Y ~ 502Y)

CURVE

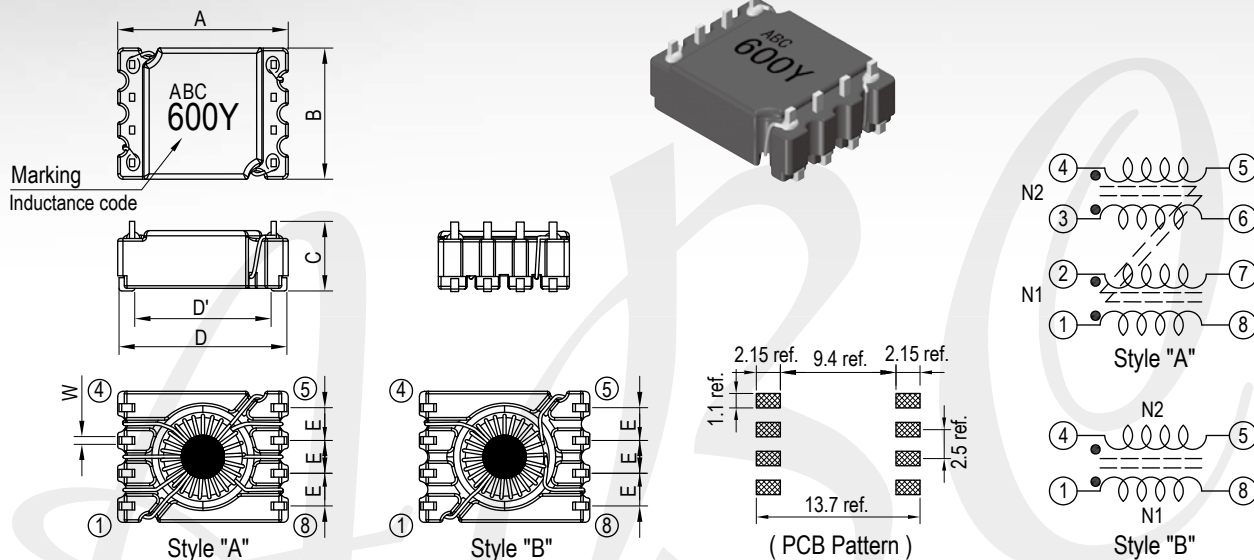


Measuring circuit :



SF1355-S Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	D'	E	W
SF1355-S	13.00±0.30	10.20±0.30	5.40±0.30	13.30 max.	9.80 ref.	2.50±0.20	0.70±0.20

DESCRIPTION

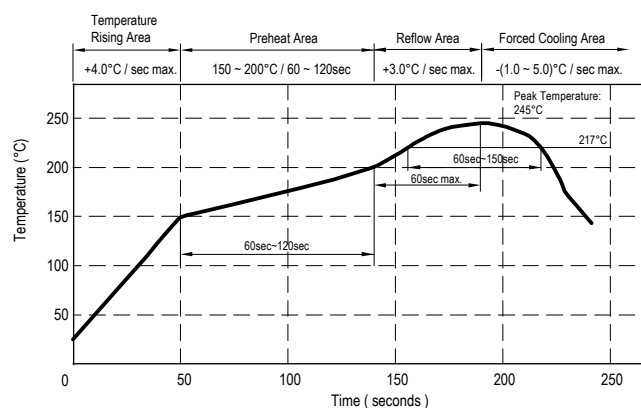
- Ferrite toroidal core construction
- Enamelled copper wire: H class
- Product weight: 1.02g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~+85°C
- Operating temp.: -40°C~+80°C (Temp. rise included)
- Resistance to solder heat 245°C. 10 secs.
- Recommended IR Reflow:
 - Peak Temp: 245°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Toroid ferrite close magnetic circuit with excellent impedance coupling effect.
- Automatic bifilar or section winding coil assembly into plastic housing for SMT.
- Recommended for reflow soldering Pcb assembly.
- Application at communication device, computer peripheral & consumer products.



SF1355-S Series

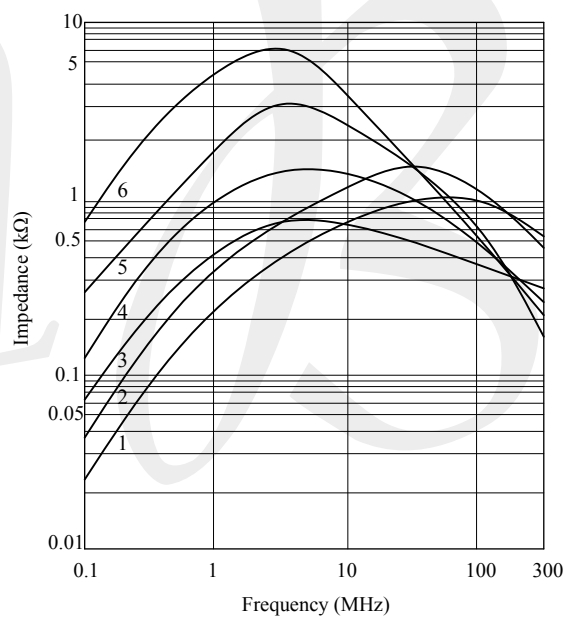
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H) 0.1 V, 100 kHz		RDC N1, N2 (Ω)	Rated current (A)	HI-POT Test	Impedance (Ω)	Freq. range (MHz)	Style
	N1, N2	N1-N2						
SF1355350YS □-□□□	35 $\pm$ 35%	4 max.	0.035 max.	2.70 max.	AC500V 60 Hz 3 mA 1 Minute	400 min.	5 ~ 250	B
SF1355600YS □-□□□	60 $\pm$ 35%	5 max.	0.065 max.	2.00 max.		600 min.	5 ~ 100	B
SF1355101YS □-□□□	100 $\pm$ 35%	15 max.	0.100 max.	0.70 max.		300 min.	1 ~ 50	A
SF1355251YS □-□□□	250 $\pm$ 35%	25 max.	0.150 max.	0.60 max.		600 min.	1 ~ 40	A
SF1355501YS □-□□□	500 $\pm$ 35%	35 max.	0.300 max.	0.40 max.		1200 min.	1 ~ 40	A
SF1355102YB □-□□□	1000 $\pm$ 35%	45 max.	0.400 max.	0.35 max.		2200 min.	0.5 ~ 10	A

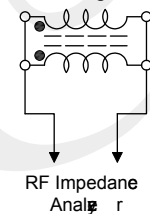
- : Packaging information: □ Code
- "-□□□": Reference code
- Electrical specifications at 25°C
- Temp. rise: 45°C max. at rated current

CURVE

- 6 : SF1355102YS□
 5 : SF1355501YS□
 4 : SF1355251YS□
 3 : SF1355101YS□
 2 : SF1355600YS□
 1 : SF1355350YS□

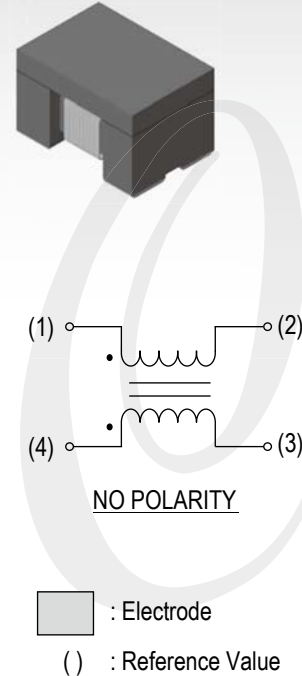
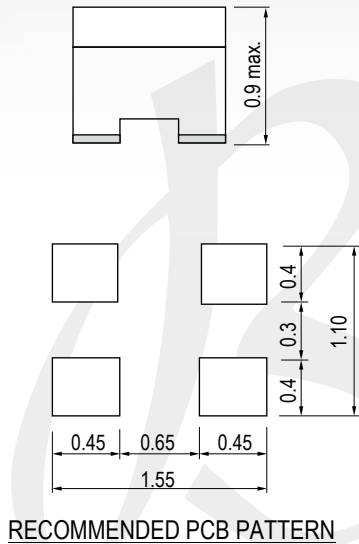
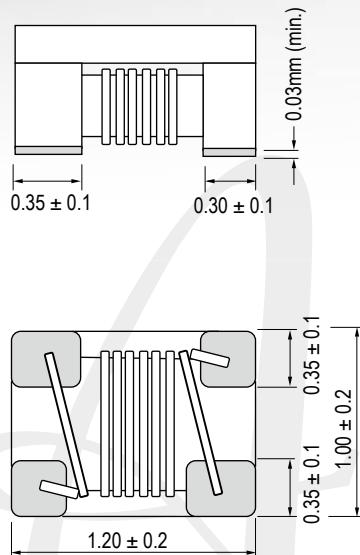


Measuring circuit :



HDC0504 ST Series

CONFIGURATION & DIMENSIONS



DESCRIPTION

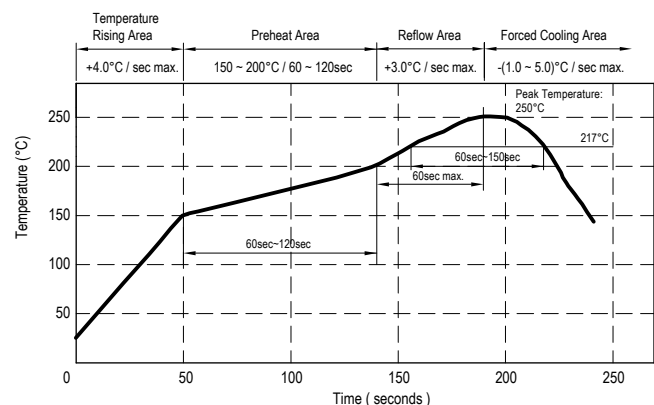
- Wire wound type common mode choke
- Ferrite core with gold plating terminals
- Comply with RoHS requirement
- Product weight : 0.005g (ref.)

GENERAL SPECIFICATION

- Storage condition:
Temp.: -10 ~ +40°C
Humidity: 30% to 70% relative humidity
- Operating temp.: -40°C to +105°C
- Recommended IR reflow:
Peak Temp.: 250°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with common mode winding.
- Automatic bifilar winding & core assembly excellent impedance coupling effect.
- Recommended for reflow soldering PCB assembly.
- Compact size application at communication device computer peripheral & consumer products.



HDC0504 ST Series

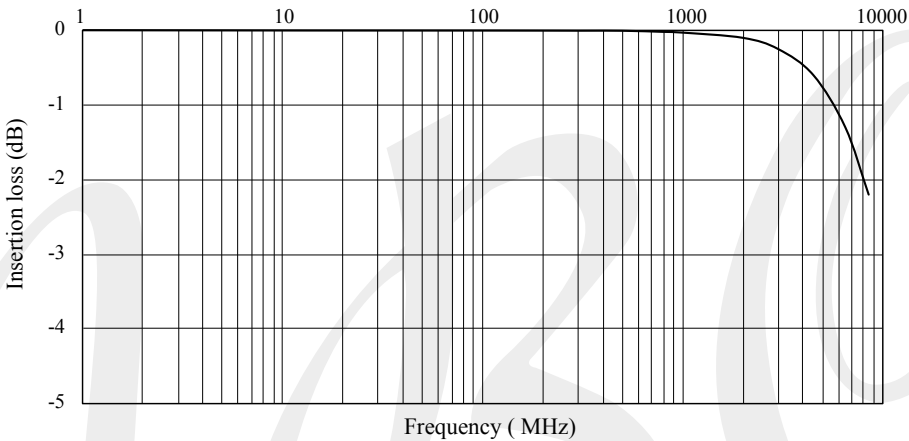
ELECTRICAL CHARACTERISTICS

DWG. No.	Common Mode Impedance (Ω) at 100MHz	DC Resistance max. (Ω)	Rated Current (mA)	Rated Voltage (V DC)	Insulation Resistance (M Ω)	Cut off Frequency (GHz)
HDC0504ST600-S	60 typ. (43 min.)	0.40 max.	300	20 max.	100 min.	10 typ.
HDC0504ST900-H	90 typ. (65 min.)	0.50 max.	280	20 max.	100 min.	8 typ.

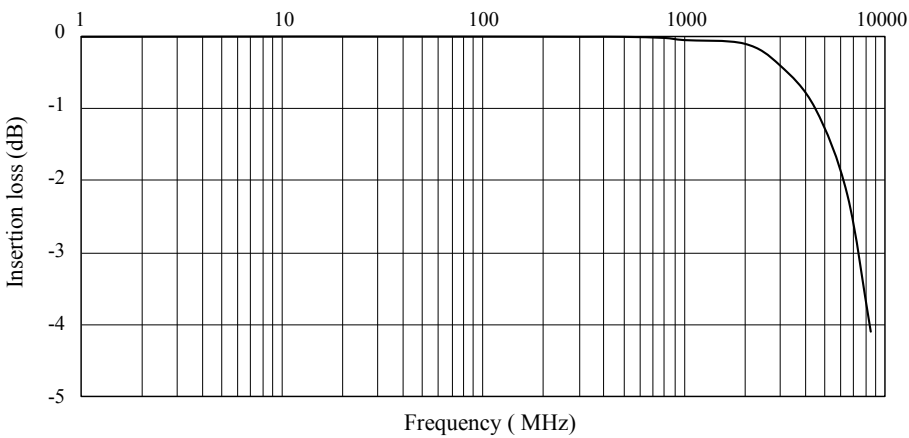
1. Impedance is measured in HP4287A or equivalent at frequency of 100MHz.
2. For 15°C rise.

CURVE

HDC0504ST (S) SERIES

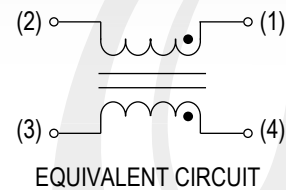
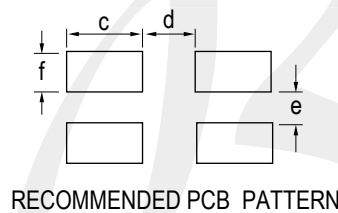
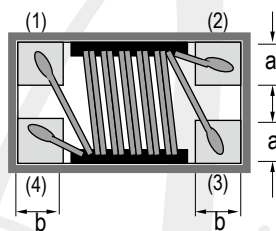
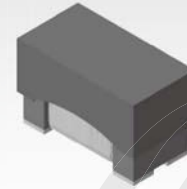
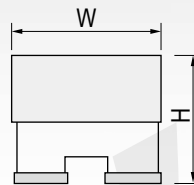
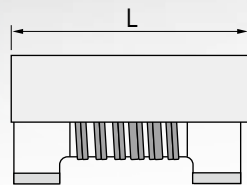


HDC0504ST (H) SERIES



PWC0603-ST/0805-HT/0805-ST/1206-ST Series

CONFIGURATION & DIMENSIONS



EQUIVALENT CIRCUIT

□ : Electrode

() : Reference Value

Unit: mm

Series	L	W	H	a	b	c	d	e	f
PWC0603 ST	1.60±0.10	0.85±0.10	1.10±0.10	0.25	0.33	0.85	0.60	0.25	0.25
PWC0805 HT	2.00±0.20	1.20±0.20	1.00±0.20	0.40	0.45	0.90	0.80	0.40	0.40
PWC0805 ST	2.00±0.20	1.20±0.20	1.20±0.20	0.40	0.45	0.90	0.80	0.40	0.40
PWC1206 ST	3.20±0.20	1.60±0.20	1.90±0.20	0.60	0.60	1.00	1.60	0.40	0.60

DESCRIPTION

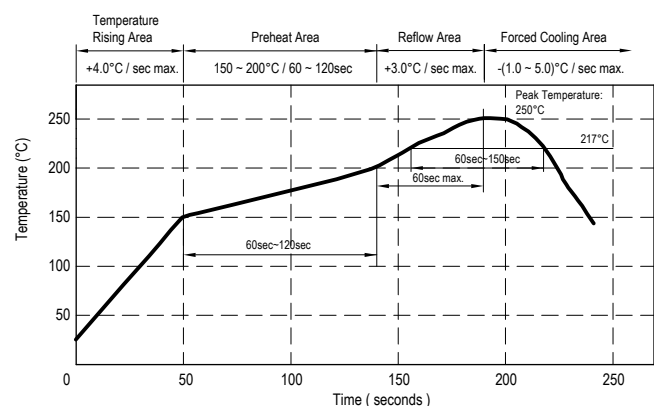
- Wire wound type common mode choke
- Ferrite core with gold or tin plating terminals
- Both shielding and non-shielded product are available
- Comply with RoHS requirement
- Product weight : 0.005 ~ 0.05g (ref.)

GENERAL SPECIFICATION

- Storage condition:
Temp.: -10 ~ +40°C
Humidity: 20 to 70% relative humidity
- Operating temp.: -40°C to +85°C
- Recommended IR reflow:
Peak Temp.: 250°C max.
Max. Peak Temp - 5°C: 30sec max.
Max time above 217°C: 60sec~150sec max.

FEATURES & APPLICATION

- Close magnetic circuit with common mode winding.
- Automatic bifilar winding & core assembly excellent impedance coupling effect.
- Recommended for reflow soldering PCB assembly.
- Compact size application at communication device computer peripheral & consumer products.



PWC0603-ST/0805-HT/0805-ST/1206-ST Series

ELECTRICAL CHARACTERISTICS

■ PWC0603 ST Series

DWG. No.	Common Mode Impedance (Ω) at 100MHz	Rated Voltage V (DC)	Withstanding Voltage V (DC)	Rated Current max (mA)	DC Resistance max (Ω)	Insulation Resistance min (M Ω)
PWC0603ST220S	22	50	125	500	0.080	10
PWC0603ST450S	45	50	125	500	0.110	10
PWC0603ST900S	90	50	125	500	0.145	10
PWC0603ST121S	120	50	125	500	0.175	10
PWC0603ST181S	180	50	125	500	0.210	10
PWC0603ST251S	250	50	125	400	0.280	10

■ PWC0805 HT Series

DWG. No.	Common Mode Impedance (Ω) at 100MHz	Rated Voltage V (DC)	Withstanding Voltage V (DC)	Rated Current max (mA)	DC Resistance max (Ω)	Insulation Resistance min (M Ω)
PWC0805HT670S	67	50	125	330	0.35	10
PWC0805HT900S	90	50	125	300	0.40	10
PWC0805HT121S	120	50	125	280	0.45	10
PWC0805HT181S	180	50	125	250	0.50	10

■ PWC0805 ST Series

DWG. No.	Common Mode Impedance (Ω) at 100MHz	Rated Voltage V (DC)	Withstanding Voltage V (DC)	Rated Current max (mA)	DC Resistance max (Ω)	Insulation Resistance min (M Ω)
PWC0805ST670S	67	50	125	400	0.25	10
PWC0805ST900S	90	50	125	330	0.35	10
PWC0805ST121S	120	50	125	370	0.30	10
PWC0805ST181S	180	50	125	330	0.35	10
PWC0805ST261S	260	50	125	300	0.40	10
PWC0805ST361S	360	50	125	280	0.45	10

■ PWC1206 ST Series

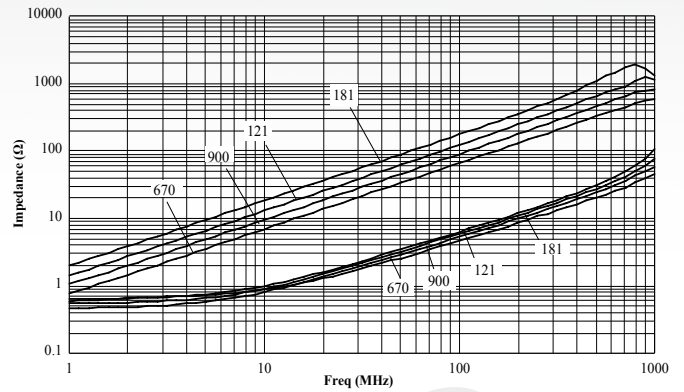
DWG. No.	Common Mode Impedance (Ω) at 100MHz	Rated Voltage V (DC)	Withstanding Voltage V (DC)	Rated Current max (mA)	DC Resistance max (Ω)	Insulation Resistance min (M Ω)
PWC1206ST900S	90	50	125	370	0.3	10
PWC1206ST161S	160	50	125	340	0.4	10
PWC1206ST261S	260	50	125	310	0.5	10
PWC1206ST601S	600	50	125	260	0.8	10
PWC1206ST102S	1000	50	125	230	1.0	10
PWC1206ST222S	2200	50	125	200	1.2	10

1. Impedance is measured in HP4287A or equivalent at frequency of 100MHz.
2. For 15°C rise.

CURVE

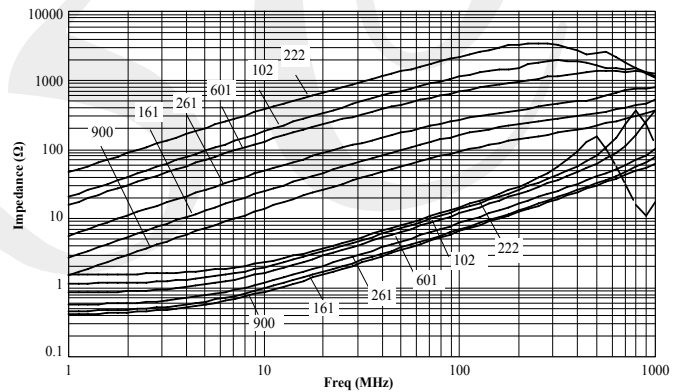
■ PWC0805 HT Series

Z vs Freq Plot



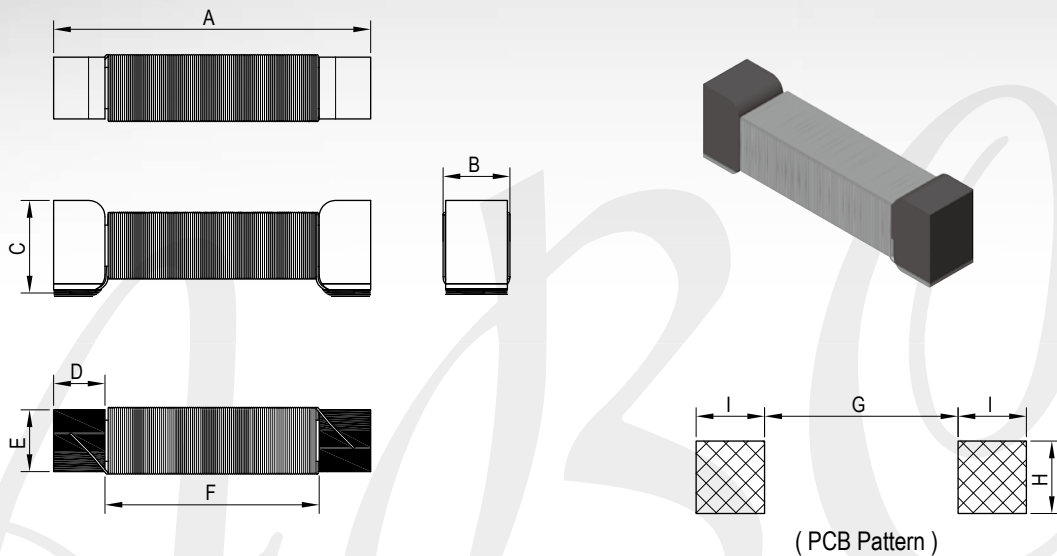
■ PWC1206 ST Series

Z vs Freq Plot



TP0702-S Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D	E	F	G	H	I
TP0702-S	7.70±0.20	2.20 max.	2.50 max.	1.25±0.20	1.50±0.20	5.20±0.20	4.80 ref.	1.80 ref.	1.70 ref

DESCRIPTION

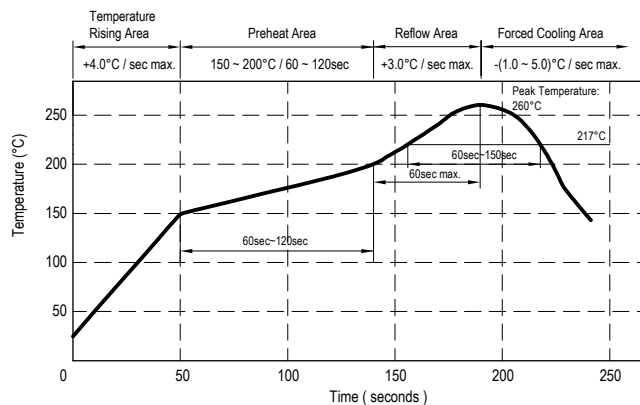
- Ferrite drum core construction
- Enamelled copper wire: H class
- Product weight: 0.125g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

FEATURES & APPLICATION

- Open magnetic circuit structure.
- Transponder coil characteristic have high inductance and high Q. It is used in signal transmission.
- Recommended for reflow soldering Pcb assembly.

GENERAL SPECIFICATION

- Storage temp.: -40°C~+125°C
- Operating temp.: -40°C~125°C (Temp. rise included)
- Resistance to solder heat 260°C. 10 secs.
- Recommended IR Reflow:
 - Peak Temp: 260°C max.
 - Max. Peak Temp - 5°C: 30sec max.
 - Max time above 217°C: 60sec~150sec max.



TP0702-S Series

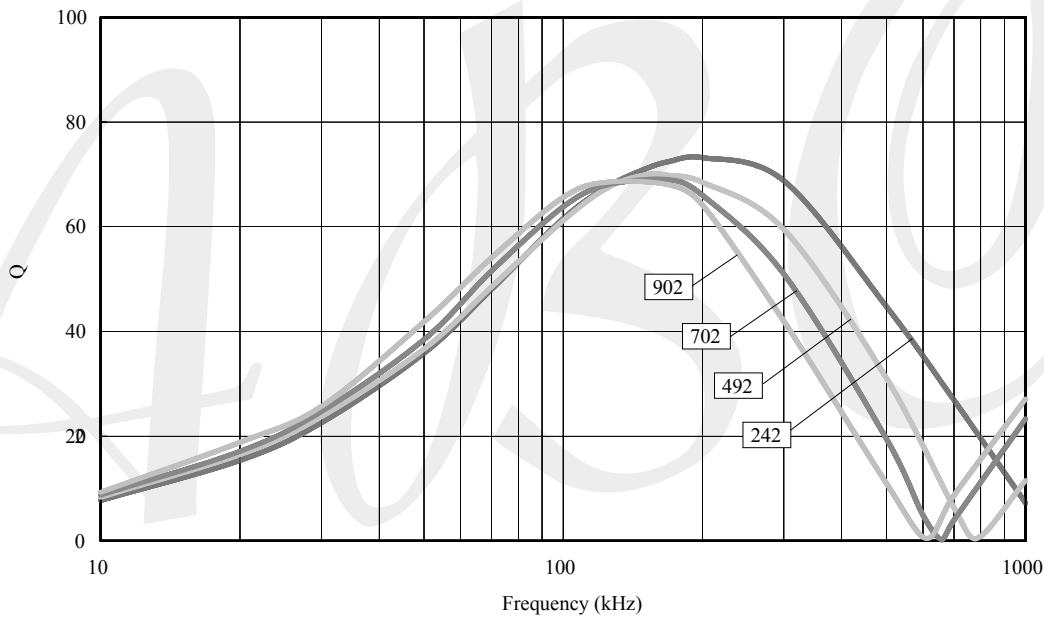
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (mH)	Q min.	SRF (kHz) min.	RDC (Ω) max.
TP0702242JS□-□□□	2.40±5%	30	900	25.3
TP0702492JS□-□□□	4.90±5%	30	700	38.5
TP0702722JS□-□□□	7.20±5%	30	500	61.1
TP0702902JS□-□□□	9.00±5%	30	450	84.7

- 1. □ : Packaging information: □ Code
- 2. "-□□□": Reference code
- 3. Electrical specifications at 25°C
- 4. Inductance & Q Test Condition.: 125kHz / 0.1V

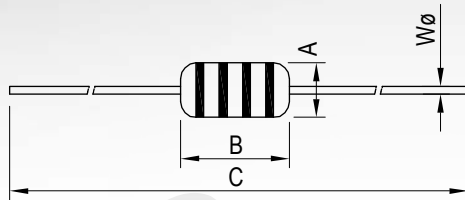
TP

CURVE



AA0307/0410-L Series

CONFIGURATION & DIMENSIONS



Color Code :

- 1st Color: First Significant Figure
- 2nd Color: Second Significant Figure
- 3rd Color: Multiplier
- 4th Color: Tolerance

Unit: mm

Series	A	B	C	WØ
AA0307-L	3.00 max.	7.50 max.	61.00 ref.	0.50
AA0410-L	4.00 max.	10.50 max.	61.00 ref.	0.60

DESCRIPTION

- Ferrite drum core construction
- Enamelled copper wire: B class
- Product weight: 0.20 (0307) / 0.35 (0410)g (ref.)
- Remark: Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Temp. rise: 20°C max.
- Storage temp.: -40°C~+105°C (0410)
- Operating temp.: -25°C~ +85°C (0307, 0410)
- Terminal tensile strength: 1.0 KG min. (0307)
2.5 KG min. (0410)
- Terminal bending strength: 0.3 KG min. (0307)
0.5 KG min. (0410)
- Dielectric withstanding voltage: 250 Vrms (0307)
500 Vrms (0410)
- Rated current: Base on temp. rise

AA0307/0410-L Series

ELECTRICAL CHARACTERISTICS

■ AA0307-L Series

DWG. No.	Inductance		Q min.	Test Freq. (MHz)	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.	Color Code			
	(μH)	Tol.						1st	2nd	3rd	4th
AA0307R10ML□-□□□	0.10	±20%	45	25.2	480.0	0.06	1400	BN	BK	SIL	—
AA0307R12ML□-□□□	0.12	±20%	45	25.2	450.0	0.06	1350	BN	R	SIL	—
AA0307R15ML□-□□□	0.15	±20%	45	25.2	420.0	0.07	1270	BN	GN	SIL	—
AA0307R18ML□-□□□	0.18	±20%	45	25.2	400.0	0.07	1200	BN	GY	SIL	—
AA0307R22ML□-□□□	0.22	±20%	45	25.2	380.0	0.08	1150	R	R	SIL	—
AA0307R27ML□-□□□	0.27	±20%	45	25.2	360.0	0.09	1100	R	V	SIL	—
AA0307R33ML□-□□□	0.33	±20%	45	25.2	320.0	0.10	1100	O	O	SIL	—
AA0307R39ML□-□□□	0.39	±20%	45	25.2	310.0	0.12	1000	O	W	SIL	—
AA0307R47ML□-□□□	0.47	±20%	45	25.2	300.0	0.15	1000	Y	V	SIL	—
AA0307R56ML□-□□□	0.56	±20%	45	25.2	280.0	0.18	950	GN	BU	SIL	—
AA0307R68ML□-□□□	0.68	±20%	45	25.2	240.0	0.20	900	BU	GY	SIL	—
AA0307R82ML□-□□□	0.82	±20%	45	25.2	200.0	0.22	900	GY	R	SIL	—
AA03071R0KL□-□□□	1.00	±10%	45	25.2	180.0	0.25	815	BN	BK	GD	SIL
AA03071R2KL□-□□□	1.20	±10%	45	7.96	160.0	0.28	740	BN	R	GD	SIL
AA03071R5KL□-□□□	1.50	±10%	45	7.96	140.0	0.30	700	BN	GN	GD	SIL
AA03071R8KL□-□□□	1.80	±10%	45	7.96	120.0	0.35	655	BN	GY	GD	SIL
AA03072R2KL□-□□□	2.20	±10%	45	7.96	110.0	0.40	630	R	R	GD	SIL
AA03072R7KL□-□□□	2.70	±10%	45	7.96	85.0	0.45	595	R	V	GD	SIL
AA03073R3KL□-□□□	3.30	±10%	45	7.96	74.0	0.50	575	O	O	GD	SIL
AA03073R9KL□-□□□	3.90	±10%	45	7.96	62.0	0.55	555	O	W	GD	SIL
AA03074R7KL□-□□□	4.70	±10%	45	7.96	48.0	0.60	530	Y	V	GD	SIL
AA03075R6KL□-□□□	5.60	±10%	45	7.96	35.0	0.65	500	GN	BU	GD	SIL
AA03076R8KL□-□□□	6.80	±10%	45	7.96	28.0	0.70	470	BU	GY	GD	SIL
AA03078R2KL□-□□□	8.20	±10%	45	7.96	20.0	0.80	425	GY	R	GD	SIL
AA0307100KL□-□□□	10.00	±10%	45	7.96	18.0	0.85	370	BN	BK	BK	SIL
AA0307120KL□-□□□	12.00	±10%	45	2.52	16.0	0.90	350	BN	R	BK	SIL
AA0307150KL□-□□□	15.00	±10%	45	2.52	14.0	1.00	335	BN	GN	BK	SIL
AA0307180KL□-□□□	18.00	±10%	45	2.52	12.0	1.20	315	BN	GY	BK	SIL
AA0307220KL□-□□□	22.00	±10%	45	2.52	10.0	1.35	285	R	R	BK	SIL
AA0307270KL□-□□□	27.00	±10%	45	2.52	9.0	1.80	270	R	V	BK	SIL
AA0307330KL□-□□□	33.00	±10%	45	2.52	8.0	2.10	255	O	O	BK	SIL
AA0307390KL□-□□□	39.00	±10%	45	2.52	7.5	2.30	240	O	W	BK	SIL
AA0307470KL□-□□□	47.00	±10%	50	2.52	7.0	2.60	205	Y	V	BK	SIL
AA0307560KL□-□□□	56.00	±10%	50	2.52	6.5	2.90	195	GN	BU	BK	SIL
AA0307680KL□-□□□	68.00	±10%	50	2.52	6.0	3.20	185	BU	GY	BK	SIL
AA0307820KL□-□□□	82.00	±10%	50	2.52	5.5	3.80	175	GY	R	BK	SIL
AA0307101KL□-□□□	100.00	±10%	50	2.52	5.0	4.20	165	BN	BK	BN	SIL
AA0307121KL□-□□□	120.00	±10%	50	0.796	4.8	4.50	160	BN	R	BN	SIL
AA0307151KL□-□□□	150.00	±10%	50	0.796	4.5	5.00	150	BN	GN	BN	SIL
AA0307181KL□-□□□	180.00	±10%	50	0.796	4.0	6.00	140	BN	GY	BN	SIL
AA0307221KL□-□□□	220.00	±10%	50	0.796	3.5	7.00	130	R	R	BN	SIL
AA0307271KL□-□□□	270.00	±10%	50	0.796	3.0	7.50	120	R	V	BN	SIL
AA0307331KL□-□□□	330.00	±10%	50	0.796	2.8	8.00	100	O	O	BN	SIL
AA0307391KL□-□□□	390.00	±10%	50	0.796	2.6	10.00	95	O	W	BN	SIL
AA0307471KL□-□□□	470.00	±10%	50	0.796	2.4	13.00	90	Y	V	BN	SIL
AA0307561KL□-□□□	560.00	±10%	50	0.796	2.0	15.00	85	GN	BU	BN	SIL
AA0307681KL□-□□□	680.00	±10%	50	0.796	1.8	16.00	75	BU	GY	BN	SIL
AA0307821KL□-□□□	820.00	±10%	50	0.796	1.6	23.00	65	GY	R	BN	SIL
AA0307102KL□-□□□	1000.00	±10%	50	0.796	1.4	26.00	60	BN	BK	R	SIL

1. Electrical specifications at 25°C

AA0307/0410-L Series

■ AA0410-L Series

DWG. No.	Inductance		Q min.	Test Freq. (MHz)	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.	Color Code			
	(μH)	Tol.						1st	2nd	3rd	4th
AA0410R10ML□-□□□	0.10	±20%	50	25.2	480.0	0.06	1700	BN	BK	SIL	—
AA0410R12ML□-□□□	0.12	±20%	50	25.2	450.0	0.06	1640	BN	R	SIL	—
AA0410R15ML□-□□□	0.15	±20%	50	25.2	420.0	0.07	1560	BN	GN	SIL	—
AA0410R18ML□-□□□	0.18	±20%	50	25.2	400.0	0.07	1480	BN	GY	SIL	—
AA0410R22ML□-□□□	0.22	±20%	50	25.2	380.0	0.08	1400	R	R	SIL	—
AA0410R27ML□-□□□	0.27	±20%	50	25.2	340.0	0.09	1320	R	V	SIL	—
AA0410R33ML□-□□□	0.33	±20%	50	25.2	300.0	0.10	1280	O	O	SIL	—
AA0410R39ML□-□□□	0.39	±20%	50	25.2	280.0	0.12	1200	O	W	SIL	—
AA0410R47ML□-□□□	0.47	±20%	50	25.2	250.0	0.13	1150	Y	V	SIL	—
AA0410R56ML□-□□□	0.56	±20%	50	25.2	230.0	0.14	1100	GN	BU	SIL	—
AA0410R68ML□-□□□	0.68	±20%	50	25.2	210.0	0.15	1030	BU	GY	SIL	—
AA0410R82ML□-□□□	0.82	±20%	50	25.2	172.0	0.16	980	GY	R	SIL	—
AA04101R0KL□-□□□	1.00	±10%	50	25.2	157.0	0.17	920	BN	BK	GD	SIL
AA04101R2KL□-□□□	1.20	±10%	50	7.96	144.0	0.18	880	BN	R	GD	SIL
AA04101R5KL□-□□□	1.50	±10%	50	7.96	131.0	0.20	830	BN	GN	GD	SIL
AA04101R8KL□-□□□	1.80	±10%	50	7.96	121.0	0.22	790	BN	GY	GD	SIL
AA04102R2KL□-□□□	2.20	±10%	50	7.96	110.0	0.24	750	R	R	GD	SIL
AA04102R7KL□-□□□	2.70	±10%	60	7.96	100.0	0.25	720	R	V	GD	SIL
AA04103R3KL□-□□□	3.30	±10%	60	7.96	94.0	0.30	670	O	O	GD	SIL
AA04103R9KL□-□□□	3.90	±10%	60	7.96	86.0	0.35	640	O	W	GD	SIL
AA04104R7KL□-□□□	4.70	±10%	70	7.96	80.0	0.40	620	Y	V	GD	SIL
AA04105R6KL□-□□□	5.60	±10%	70	7.96	74.0	0.45	590	GN	BU	GD	SIL
AA04106R8KL□-□□□	6.80	±10%	70	7.96	68.0	0.50	550	BU	GY	GD	SIL
AA04108R2KL□-□□□	8.20	±10%	80	7.96	53.0	0.52	530	GY	R	GD	SIL
AA0410100KL□-□□□	10.00	±10%	80	7.96	40.0	0.65	500	BN	BK	BK	SIL
AA0410120KL□-□□□	12.00	±10%	70	2.52	34.0	0.70	480	BN	R	BK	SIL
AA0410150KL□-□□□	15.00	±10%	70	2.52	20.0	0.75	460	BN	GN	BK	SIL
AA0410180KL□-□□□	18.00	±10%	60	2.52	14.0	0.80	430	BN	GY	BK	SIL
AA0410220KL□-□□□	22.00	±10%	60	2.52	9.9	0.90	410	R	R	BK	SIL
AA0410270KL□-□□□	27.00	±10%	50	2.52	7.6	1.00	390	R	V	BK	SIL
AA0410330KL□-□□□	33.00	±10%	50	2.52	6.5	1.10	370	O	O	BK	SIL
AA0410390KL□-□□□	39.00	±10%	50	2.52	6.5	1.20	350	O	W	BK	SIL
AA0410470KL□-□□□	47.00	±10%	45	2.52	6.3	1.30	340	Y	V	BK	SIL
AA0410560KL□-□□□	56.00	±10%	45	2.52	6.2	1.50	320	GN	BU	BK	SIL
AA0410680KL□-□□□	68.00	±10%	40	2.52	5.7	1.80	305	BU	GY	BK	SIL
AA0410820KL□-□□□	82.00	±10%	35	2.52	5.3	2.00	290	GY	R	BK	SIL
AA0410101KL□-□□□	100.00	±10%	30	2.52	4.8	2.50	275	BN	BK	BN	SIL
AA0410121KL□-□□□	120.00	±10%	60	0.796	3.8	3.00	185	BN	R	BN	SIL
AA0410151KL□-□□□	150.00	±10%	60	0.796	3.5	4.00	175	BN	GN	BN	SIL
AA0410181KL□-□□□	180.00	±10%	60	0.796	3.0	4.50	165	BN	GY	BN	SIL
AA0410221KL□-□□□	220.00	±10%	60	0.796	2.8	5.00	155	R	R	BN	SIL
AA0410271KL□-□□□	270.00	±10%	60	0.796	2.6	6.00	145	R	V	BN	SIL
AA0410331KL□-□□□	330.00	±10%	60	0.796	2.4	6.50	137	O	O	BN	SIL
AA0410391KL□-□□□	390.00	±10%	55	0.796	2.0	7.50	133	O	W	BN	SIL
AA0410471KL□-□□□	470.00	±10%	50	0.796	1.8	8.50	126	Y	V	BN	SIL
AA0410561KL□-□□□	560.00	±10%	50	0.796	1.6	9.50	120	GN	BU	BN	SIL
AA0410681KL□-□□□	680.00	±10%	45	0.796	1.6	12.00	113	BU	GY	BN	SIL
AA0410821KL□-□□□	820.00	±10%	45	0.796	1.4	14.00	105	GY	R	BN	SIL
AA0410102KL□-□□□	1000.00	±10%	40	0.796	1.2	20.00	100	BN	BK	R	SIL

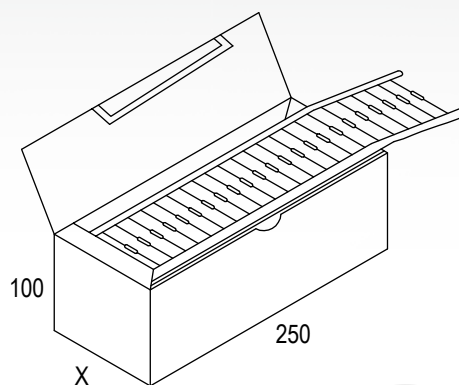
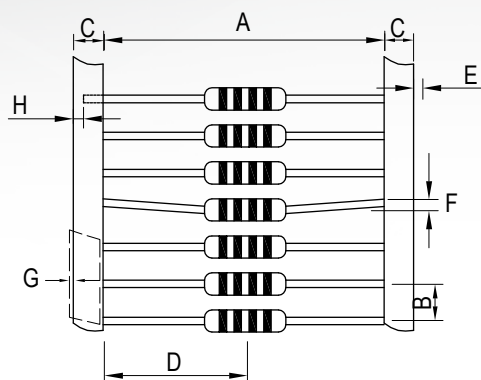
1. Electrical specifications at 25°C

AA0307/0410-L Series

PACKAGING

Packaging information For AA Horizontal Taping In Box:

1. Configuration



2. Dimensions

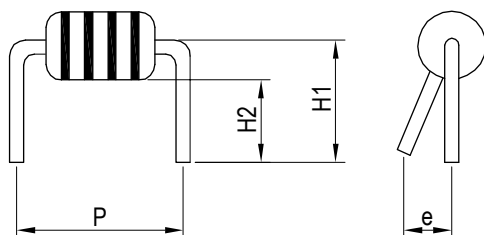
Unit: mm

Style	Item	Specification	Item	Specification
T 26	A	26.00±1.50	B	5.00±0.50
	D	13.00±0.50	C	6.00±1.00
	X	50.00±1.50	E	0.50 (max.)
	H	2.50 (max.)		
T 52	A	52.00±1.50	F	1.00 (max.)
	D	26.00±1.50	G	1.00 (max.)
	X	76.00±1.50	H	2.50 (max.)

3. Q'TY & G.W. Per package

Part No.	Code	Inner : Box			Outer : Carton		
		Q'TY (pcs)	G.W. (gw)	Size (m/m)	Q'TY (pcs)	G.W. (Kg)	Size (cm)
AA0307-L	B, D	3,000	900	250 x 75 x 100	36,000	12.5	37.6 x 26.6 x 34.5
AA0410-L	B, D	2,000	600	250 x 75 x 100	24,000	8.0	37.6 x 26.6 x 34.5

• AA0410-L Series

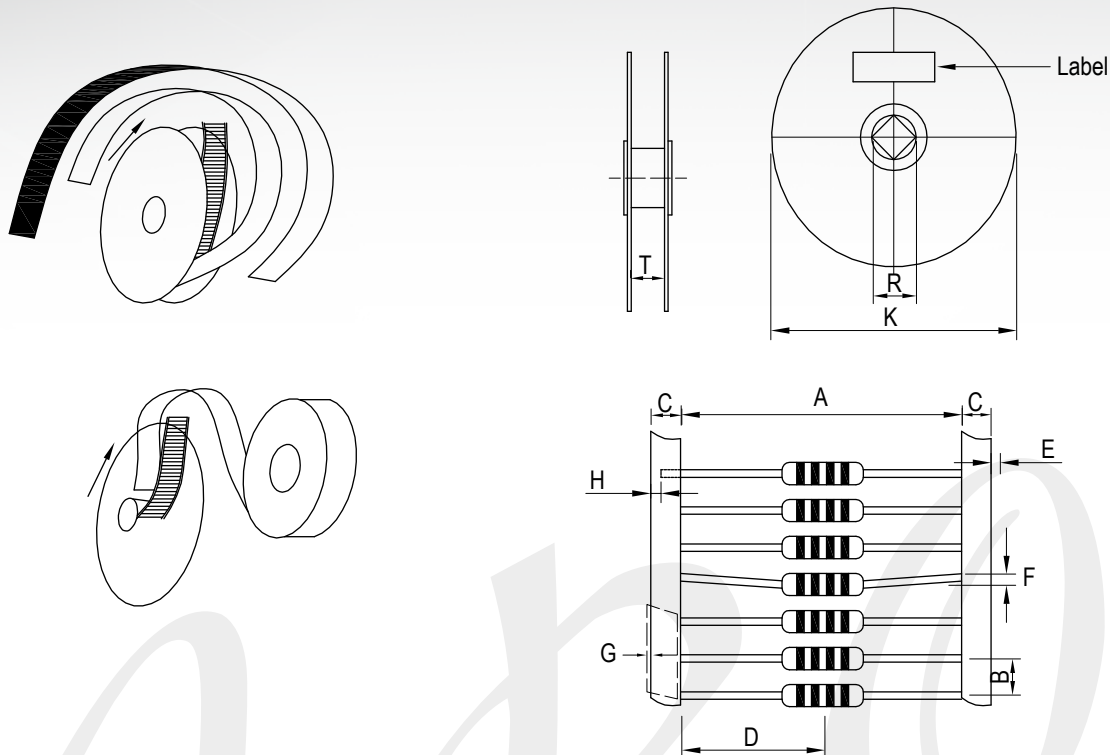


Code	Style	P±0.5	H1±0.5	H2±1	e max.
F	FM Type	12.0	6.5	4.5	1.7

AA0307/0410-L Series

Packaging information For AA Horizontal Taping In Reel:

1. Configuration



2. Dimensions

Unit: mm

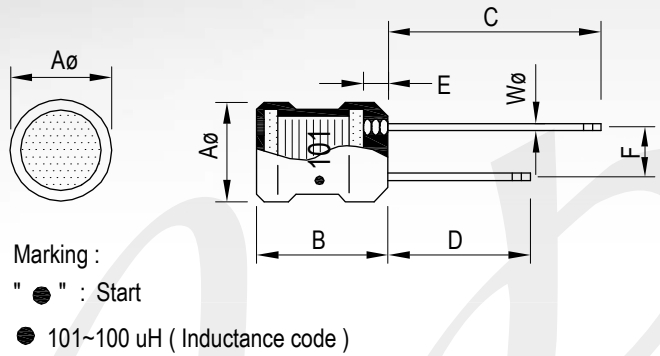
Item	Specification	Item	Specification
A	52.00±1.50	F	1.00 (max.)
B	5.00±0.50	G	1.00 (max.)
C	6.00±1.00	K	355.00±0.50
D	26.00±1.50	R	15.00±0.50
E	0.50 (max.)	T	71.00±3.00
H	2.50 (max.)		

3. Q'TY & G.W. Per package

Part No.	Code	Inner : Reel			Outer : Carton		
		Q'TY (pcs)	G.W. (gw)	Size (m/m)	Q'TY (pcs)	G.W. (Kg)	Size (cm)
AA0307-L	C	5,000	1,600	370 x 370 x 85	20,000	8	37.9 x 37.9 x 37.3
AA0410-L	C, E	5,000	2,000	370 x 370 x 85	20,000	10	37.9 x 37.9 x 37.3

RB0608/0712/0812-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	Aø	B	C	D	E	F	Wø
RB0608-L	5.00±0.50	6.50±1.00/-0.50	28.00±5.00	20.00±5.00	2.50 max.	2.00±0.50	0.50
RB0712-L	6.70±0.50	10.00±1.00	25.00±5.00	18.00±5.00	2.50 max.	3.00±0.50	0.65
RB0812-L	6.70±0.50	10.00±1.00	25.00±5.00	18.00±5.00	2.50 max.	3.00±0.50	0.65

DESCRIPTION

- Ferrite drum core construction
- Enamelled copper wire: F & H class
- Product weight: 0.40 (0608) / 1.23 (0712) / 1.36 (0812)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)

RB0608/0712/0812-L Series

ELECTRICAL CHARACTERISTICS

■ RB0608-L Series

DWG. No.	Inductance (μ H)	Q min.	Test Freq. (MHz) L & Q	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
RB06081R0ML□-□□□	1.0 $\pm$ 20%	60	7.960	105.0	0.10	1030
RB06081R2ML□-□□□	1.2 $\pm$ 20%	60	7.960	90.0	0.15	980
RB06081R5ML□-□□□	1.5 $\pm$ 20%	60	7.960	75.0	0.20	920
RB06081R8ML□-□□□	1.8 $\pm$ 20%	60	7.960	70.0	0.22	880
RB06082R2ML□-□□□	2.2 $\pm$ 20%	60	7.960	65.0	0.24	830
RB06082R7ML□-□□□	2.7 $\pm$ 20%	60	7.960	60.0	0.27	790
RB06083R3ML□-□□□	3.3 $\pm$ 20%	60	7.960	50.0	0.30	750
RB06083R9ML□-□□□	3.9 $\pm$ 20%	60	7.960	45.0	0.30	720
RB06084R7ML□-□□□	4.7 $\pm$ 20%	60	7.960	40.0	0.35	670
RB06085R6KL□-□□□	5.6 $\pm$ 10%	60	7.960	35.0	0.35	640
RB06086R8KL□-□□□	6.8 $\pm$ 10%	60	7.960	30.0	0.40	620
RB06088R2KL□-□□□	8.2 $\pm$ 10%	60	7.960	25.0	0.40	590
RB0608100KL□-□□□	10.0 $\pm$ 10%	60	2.520	20.0	0.45	550
RB0608120KL□-□□□	12.0 $\pm$ 10%	60	2.520	15.0	0.50	530
RB0608150KL□-□□□	15.0 $\pm$ 10%	60	2.520	13.0	0.55	500
RB0608180KL□-□□□	18.0 $\pm$ 10%	60	2.520	11.0	0.60	480
RB0608220KL□-□□□	22.0 $\pm$ 10%	60	2.520	10.0	0.65	460
RB0608270KL□-□□□	27.0 $\pm$ 10%	50	2.520	9.0	0.75	430
RB0608330KL□-□□□	33.0 $\pm$ 10%	50	2.520	8.0	0.85	410
RB0608390KL□-□□□	39.0 $\pm$ 10%	50	2.520	7.5	0.90	390
RB0608470KL□-□□□	47.0 $\pm$ 10%	50	2.520	7.0	1.00	370
RB0608560KL□-□□□	56.0 $\pm$ 10%	50	2.520	6.5	1.20	350
RB0608680KL□-□□□	68.0 $\pm$ 10%	50	2.520	6.0	1.30	340
RB0608820KL□-□□□	82.0 $\pm$ 10%	50	2.520	5.5	1.50	320
RB0608101KL□-□□□	100.0 $\pm$ 10%	50	0.796	5.0	1.70	305
RB0608121KL□-□□□	120.0 $\pm$ 10%	50	0.796	4.8	1.90	290
RB0608151KL□-□□□	150.0 $\pm$ 10%	50	0.796	4.4	2.10	275
RB0608181KL□-□□□	180.0 $\pm$ 10%	50	0.796	4.2	2.30	235
RB0608221KL□-□□□	220.0 $\pm$ 10%	45	0.796	3.8	2.50	200
RB0608271KL□-□□□	270.0 $\pm$ 10%	45	0.796	3.6	2.75	180
RB0608331KL□-□□□	330.0 $\pm$ 10%	45	0.796	3.3	4.68	165
RB0608391KL□-□□□	390.0 $\pm$ 10%	45	0.796	3.0	6.00	150
RB0608471KL□-□□□	470.0 $\pm$ 10%	55	0.796	2.8	6.50	140
RB0608561KL□-□□□	560.0 $\pm$ 10%	55	0.796	2.4	8.50	135
RB0608681KL□-□□□	680.0 $\pm$ 10%	55	0.796	2.2	9.00	125
RB0608821KL□-□□□	820.0 $\pm$ 10%	55	0.796	2.0	9.60	120
RB0608102KL□-□□□	1000.0 $\pm$ 10%	55	0.252	1.8	11.50	100

1. Electrical specifications at 25°C
2. IDC base on temp. rise 20°C max.

RB0608/0712/0812-L Series

■ RB0712-L Series

DWG. No.	Inductance (μ H)	Q min.	Test Freq. (Hz)		SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
			L	Q			
RB0712100KL□-□□□	10 $\pm$ 10%	20	1k	2.520M	16.0	0.07	1.10
RB0712120KL□-□□□	12 $\pm$ 10%	20	1k	2.520M	12.0	0.08	1.00
RB0712150KL□-□□□	15 $\pm$ 10%	20	1k	2.520M	10.0	0.09	0.90
RB0712180KL□-□□□	18 $\pm$ 10%	20	1k	2.520M	10.0	0.10	0.75
RB0712220KL□-□□□	22 $\pm$ 10%	20	1k	2.520M	9.0	0.12	0.70
RB0712270KL□-□□□	27 $\pm$ 10%	20	1k	2.520M	8.0	0.13	0.65
RB0712330KL□-□□□	33 $\pm$ 10%	20	1k	2.520M	7.0	0.15	0.60
RB0712390KL□-□□□	39 $\pm$ 10%	20	1k	2.520M	6.0	0.16	0.55
RB0712470KL□-□□□	47 $\pm$ 10%	20	1k	2.520M	6.0	0.18	0.45
RB0712560KL□-□□□	56 $\pm$ 10%	20	1k	2.520M	5.0	0.21	0.40
RB0712680KL□-□□□	68 $\pm$ 10%	20	1k	2.520M	5.0	0.24	0.36
RB0712820KL□-□□□	82 $\pm$ 10%	20	1k	2.520M	5.0	0.35	0.34
RB0712101KL□-□□□	100 $\pm$ 10%	20	1k	0.796M	4.0	0.40	0.32
RB0712121KL□-□□□	120 $\pm$ 10%	20	1k	0.796M	4.0	0.45	0.30
RB0712151KL□-□□□	150 $\pm$ 10%	20	1k	0.796M	3.5	0.50	0.28
RB0712181KL□-□□□	180 $\pm$ 10%	20	1k	0.796M	3.0	0.75	0.26
RB0712221KL□-□□□	220 $\pm$ 10%	20	1k	0.796M	3.0	0.90	0.24
RB0712271KL□-□□□	270 $\pm$ 10%	20	1k	0.796M	2.5	1.00	0.22
RB0712331KL□-□□□	330 $\pm$ 10%	20	1k	0.796M	2.5	1.10	0.20
RB0712391KL□-□□□	390 $\pm$ 10%	20	1k	0.796M	2.0	1.20	0.18
RB0712471KL□-□□□	470 $\pm$ 10%	20	1k	0.796M	2.0	1.50	0.16
RB0712561KL□-□□□	560 $\pm$ 10%	20	1k	0.796M	2.0	1.80	0.15

1. Electrical specifications at 25°C
2. IDC base on temp. rise 20°C max.

RB0608/0712/0812-L Series

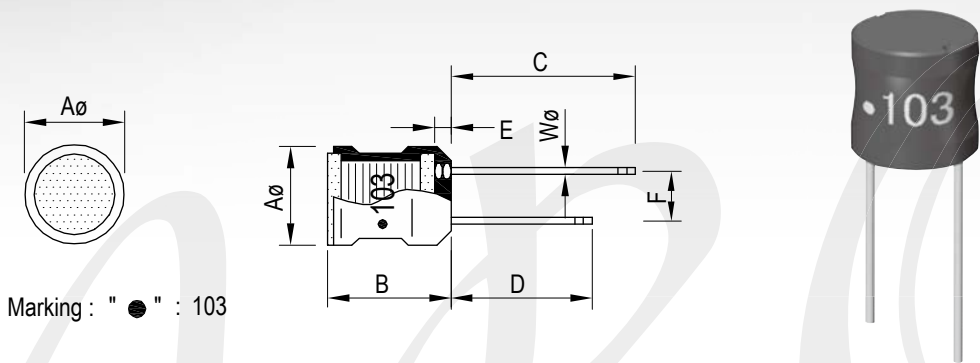
■ RB0812-L Series

DWG. No.	Inductance (μ H)	Q min.	Test Freq. (MHz) L & Q	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
RB0812470KL□-□□□	47 $\pm$ 10%	30	2.52	6.00	0.40	450
RB0812560KL□-□□□	56 $\pm$ 10%	30	2.52	5.50	0.45	400
RB0812680KL□-□□□	68 $\pm$ 10%	30	2.52	5.00	0.50	360
RB0812820KL□-□□□	82 $\pm$ 10%	30	2.52	4.50	0.50	340
RB0812101KL□-□□□	100 $\pm$ 10%	45	0.796	4.20	0.60	320
RB0812121KL□-□□□	120 $\pm$ 10%	45	0.796	3.60	0.70	300
RB0812151KL□-□□□	150 $\pm$ 10%	45	0.796	3.40	0.90	280
RB0812181KL□-□□□	180 $\pm$ 10%	45	0.796	3.20	1.00	260
RB0812221KL□-□□□	220 $\pm$ 10%	45	0.796	3.00	1.20	240
RB0812271KL□-□□□	270 $\pm$ 10%	45	0.796	2.80	1.40	220
RB0812331KL□-□□□	330 $\pm$ 10%	45	0.796	2.50	1.60	200
RB0812391KL□-□□□	390 $\pm$ 10%	45	0.796	2.30	1.80	180
RB0812471KL□-□□□	470 $\pm$ 10%	45	0.796	2.20	2.00	160
RB0812561KL□-□□□	560 $\pm$ 10%	45	0.796	2.00	2.50	150
RB0812681KL□-□□□	680 $\pm$ 10%	45	0.796	1.70	2.90	140
RB0812821KL□-□□□	820 $\pm$ 10%	45	0.796	1.50	3.10	130
RB0812102KL□-□□□	1000 $\pm$ 10%	45	0.252	1.40	3.90	120
RB0812122KL□-□□□	1200 $\pm$ 10%	60	0.252	1.10	4.40	110
RB0812152KL□-□□□	1500 $\pm$ 10%	60	0.252	0.90	6.00	100
RB0812182KL□-□□□	1800 $\pm$ 10%	60	0.252	0.80	7.00	90
RB0812222KL□-□□□	2200 $\pm$ 10%	60	0.252	0.75	8.00	80
RB0812272KL□-□□□	2700 $\pm$ 10%	60	0.252	0.70	9.00	70
RB0812332KL□-□□□	3300 $\pm$ 10%	60	0.252	0.60	12.00	60
RB0812392KL□-□□□	3900 $\pm$ 10%	60	0.252	0.55	14.00	55
RB0812472KL□-□□□	4700 $\pm$ 10%	60	0.252	0.50	16.00	50
RB0812562KL□-□□□	5600 $\pm$ 10%	60	0.252	0.48	18.00	45
RB0812682KL□-□□□	6800 $\pm$ 10%	60	0.252	0.44	24.00	40
RB0812822KL□-□□□	8200 $\pm$ 10%	60	0.252	0.40	30.00	36
RB0812103KL□-□□□	10000 $\pm$ 10%	60	0.0796	0.36	39.00	34
RB0812123KL□-□□□	12000 $\pm$ 10%	60	0.0796	0.32	46.00	32
RB0812153KL□-□□□	15000 $\pm$ 10%	60	0.0796	0.30	54.00	30
RB0812183KL□-□□□	18000 $\pm$ 10%	60	0.0796	0.28	76.00	27
RB0812223KL□-□□□	22000 $\pm$ 10%	60	0.0796	0.24	92.00	25
RB0812273KL□-□□□	27000 $\pm$ 10%	60	0.0796	0.20	102.00	22
RB0812333KL□-□□□	33000 $\pm$ 10%	60	0.0796	0.16	140.00	20
RB0812393KL□-□□□	39000 $\pm$ 10%	60	0.0796	0.13	150.00	18
RB0812473KL□-□□□	47000 $\pm$ 10%	60	0.0796	0.10	162.00	16

1. Electrical specifications at 25°C
2. IDC base on temp. rise 20°C max.

RB1010-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	AØ	B	C	D	E	F	WØ
RB1010-L	10.70±0.80	11.00±0.80	18.00±3.00	15.00±3.00	1.50 max.	7.00±0.80	0.80

RB

DESCRIPTION

- Ferrite drum core construction
- Enamelled copper wire: F class
- Product weight: 2.86g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)

RB1010-L Series

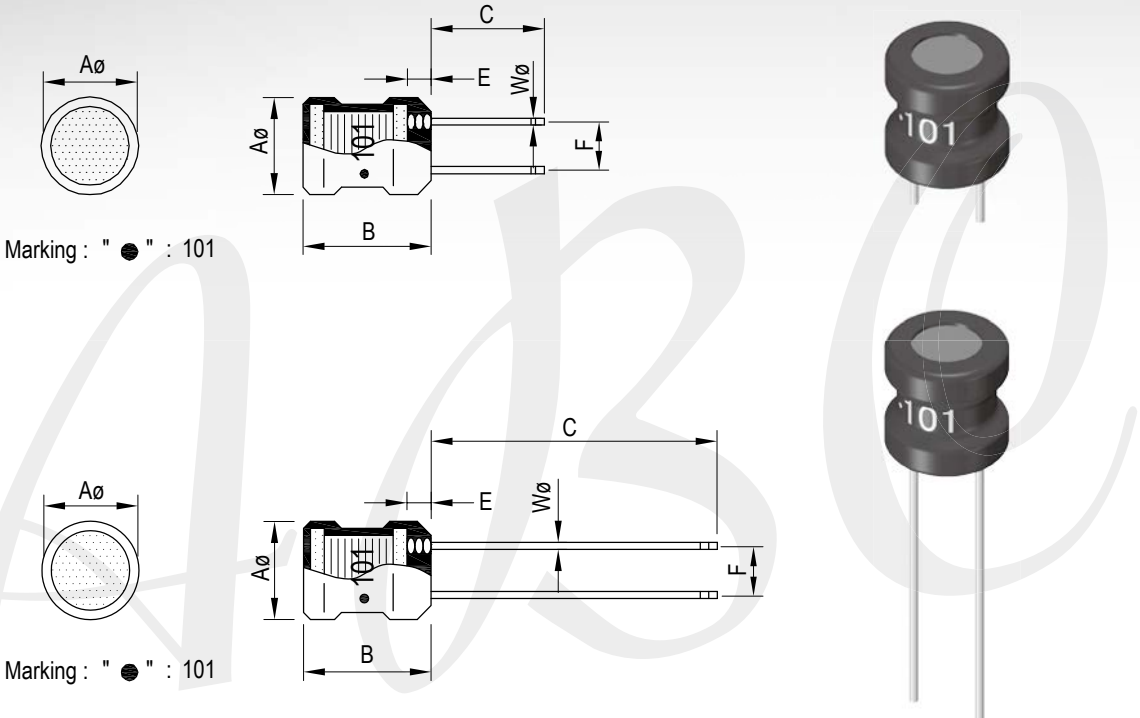
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Q min.	Test Freq. (Hz)		SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
			L	Q			
RB1010101KL□-□□□	100 $\pm$ 10%	30	1V/1k	0.796M	3.500	0.12	900
RB1010121KL□-□□□	120 $\pm$ 10%	40	1V/1k	0.796M	3.000	0.18	820
RB1010151KL□-□□□	150 $\pm$ 10%	35	1V/1k	0.796M	2.800	0.20	780
RB1010181KL□-□□□	180 $\pm$ 10%	30	1V/1k	0.796M	2.600	0.23	680
RB1010221KL□-□□□	220 $\pm$ 10%	30	1V/1k	0.796M	2.200	0.28	620
RB1010271KL□-□□□	270 $\pm$ 10%	28	1V/1k	0.796M	2.000	0.32	520
RB1010331KL□-□□□	330 $\pm$ 10%	22	1V/1k	0.796M	1.800	0.38	480
RB1010391KL□-□□□	390 $\pm$ 10%	20	1V/1k	0.796M	1.700	0.43	430
RB1010471KL□-□□□	470 $\pm$ 10%	17	1V/1k	0.796M	1.600	0.50	400
RB1010561JL□-□□□	560 $\pm$ 5%	18	1V/1k	0.796M	1.500	0.65	370
RB1010681JL□-□□□	680 $\pm$ 5%	15	1V/1k	0.796M	1.300	0.80	330
RB1010821JL□-□□□	820 $\pm$ 5%	18	1V/1k	0.796M	1.220	1.00	300
RB1010102JL□-□□□	1000 $\pm$ 5%	15	1V/1k	0.252M	1.100	1.20	270
RB1010122JL□-□□□	1200 $\pm$ 5%	13	1V/1k	0.252M	1.000	1.30	250
RB1010152JL□-□□□	1500 $\pm$ 5%	35	1V/1k	0.252M	0.820	1.80	220
RB1010182JL□-□□□	1800 $\pm$ 5%	30	1V/1k	0.252M	0.780	2.20	200
RB1010222JL□-□□□	2200 $\pm$ 5%	40	1V/1k	0.252M	0.720	2.80	180
RB1010272JL□-□□□	2700 $\pm$ 5%	35	1V/1k	0.252M	0.680	3.20	160
RB1010332JL□-□□□	3300 $\pm$ 5%	30	1V/1k	0.252M	0.660	3.60	155
RB1010392JL□-□□□	3900 $\pm$ 5%	30	1V/1k	0.252M	0.600	4.20	140
RB1010472JL□-□□□	4700 $\pm$ 5%	25	1V/1k	0.252M	0.480	5.40	130
RB1010562JL□-□□□	5600 $\pm$ 5%	25	1V/1k	0.252M	0.450	6.00	120
RB1010682JL□-□□□	6800 $\pm$ 5%	25	1V/1k	0.252M	0.380	7.50	110
RB1010822JL□-□□□	8200 $\pm$ 5%	25	1V/1k	0.252M	0.350	8.60	105
RB1010103JL□-□□□	10000 $\pm$ 5%	50	1V/1k	79.6k	0.340	10.00	100
RB1010123JL□-□□□	12000 $\pm$ 5%	45	1V/1k	79.6k	0.300	13.50	80
RB1010153JL□-□□□	15000 $\pm$ 5%	50	1V/1k	79.6k	0.280	17.00	70
RB1010183JL□-□□□	18000 $\pm$ 5%	45	1V/1k	79.6k	0.230	21.00	55
RB1010223JL□-□□□	22000 $\pm$ 5%	55	1V/1k	79.6k	0.200	25.00	52
RB1010273JL□-□□□	27000 $\pm$ 5%	50	1V/1k	79.6k	0.190	32.00	48
RB1010333JL□-□□□	33000 $\pm$ 5%	45	1V/1k	79.6k	0.180	40.00	40
RB1010393JL□-□□□	39000 $\pm$ 5%	40	1V/1k	79.6k	0.160	45.00	37
RB1010473JL□-□□□	47000 $\pm$ 5%	40	1V/1k	79.6k	0.150	52.00	32
RB1010563JL□-□□□	56000 $\pm$ 5%	35	1V/1k	79.6k	0.130	66.00	30
RB1010683JL□-□□□	68000 $\pm$ 5%	35	1V/1k	79.6k	0.125	78.00	24
RB1010823JL□-□□□	82000 $\pm$ 5%	35	1V/1k	79.6k	0.120	105.00	22
RB1010104JL□-□□□	100000 $\pm$ 5%	30	1V/1k	25.2k	0.100	140.00	20

1. Electrical specifications at 25°C
2. IDC base on temp. rise 20°C max.

RB0912-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	AØ	B	C	E	F	WØ
RB0912-L	8.70±0.50	10.00±1.00	5.00±1.00	2.50 max.	5.00±0.80	0.65

DESCRIPTION

- Ferrite drum core construction
- Enamelled copper wire: F class
- Product weight: 1.73g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)

RB0912-L Series

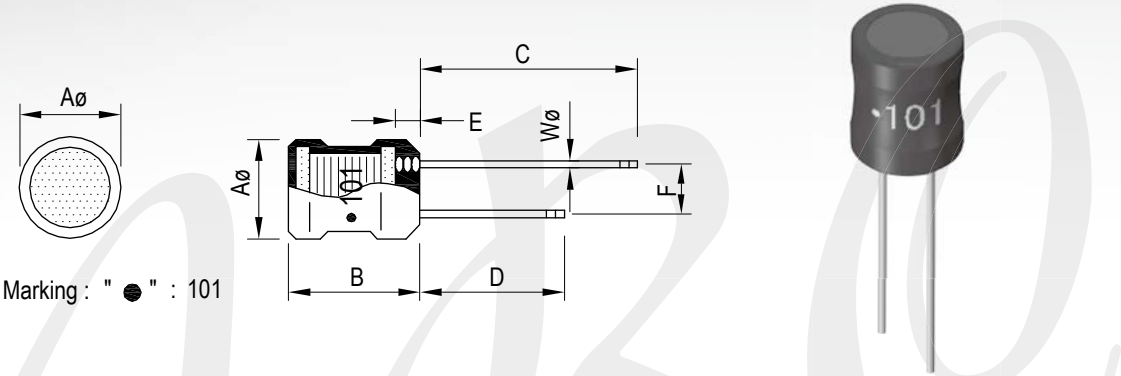
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) typ.	RDC (Ω) max.	Isat (A) typ.	Irms (A) typ.
			L	Q				
RB09121R5ML□-□□□	1.5 $\pm$ 20%	30	1k	7.960M	78.0	0.008	8.00	6.00
RB09122R2ML□-□□□	2.2 $\pm$ 20%	30	1k	7.960M	63.0	0.010	7.50	5.30
RB09123R3ML□-□□□	3.3 $\pm$ 20%	30	1k	7.960M	50.0	0.018	6.50	4.50
RB09124R7ML□-□□□	4.7 $\pm$ 20%	30	1k	7.960M	41.0	0.022	5.00	4.00
RB09126R8ML□-□□□	6.8 $\pm$ 20%	30	1k	7.960M	33.0	0.028	4.30	3.70
RB0912100KL□-□□□	10.0 $\pm$ 10%	60	1k	2.520M	27.0	0.043	3.60	2.50
RB0912150KL□-□□□	15.0 $\pm$ 10%	50	1k	2.520M	21.0	0.056	3.00	2.30
RB0912220KL□-□□□	22.0 $\pm$ 10%	50	1k	2.520M	17.0	0.086	2.50	2.10
RB0912330KL□-□□□	33.0 $\pm$ 10%	45	1k	2.520M	13.0	0.140	2.00	1.70
RB0912470KL□-□□□	47.0 $\pm$ 10%	40	1k	2.520M	11.0	0.170	1.70	1.50
RB0912680KL□-□□□	68.0 $\pm$ 10%	35	1k	2.520M	9.0	0.280	1.50	1.35
RB0912101KL□-□□□	100.0 $\pm$ 10%	55	1k	0.796M	7.2	0.330	1.20	1.00
RB0912151KL□-□□□	150.0 $\pm$ 10%	40	1k	0.796M	5.7	0.560	1.00	0.92
RB0912221KL□-□□□	220.0 $\pm$ 10%	30	1k	0.796M	4.5	0.720	0.80	0.80
RB0912331KL□-□□□	330.0 $\pm$ 10%	25	1k	0.796M	3.6	1.100	0.62	0.70
RB0912471KL□-□□□	470.0 $\pm$ 10%	25	1k	0.796M	2.9	1.700	0.52	0.60
RB0912681KL□-□□□	680.0 $\pm$ 10%	25	1k	0.796M	2.3	2.300	0.42	0.50
RB0912102KL□-□□□	1000.0 $\pm$ 10%	55	1k	0.252M	1.9	4.300	0.35	0.40

1. Electrical specifications at 25°C
2. Isat base on $\Delta L/L0A=10\%$ typ. (Approximately transient current)
3. Irms base on Temp. rise 40°C typ.

RB0914-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	AØ	B	C	D	E	F	WØ
RB0914-L	8.70±0.50	12.00±1.00	25.00±5.00	18.00±5.00	2.50 max.	5.00±0.80	0.65

RB

DESCRIPTION

- Ferrite drum core construction
- Enamelled copper wire: F class
- Product weight: 1.83g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)

RB0914-L Series

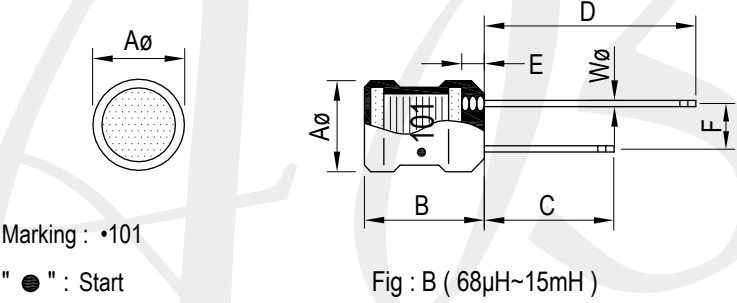
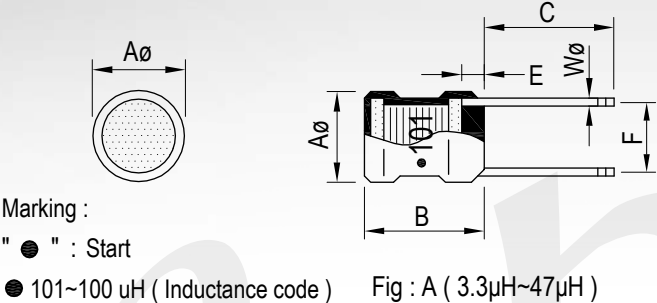
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Q min.	Test Freq. (MHz) L & Q	SRF (MHz) min.	RDC (Ω) max.	Isat (A) typ.	Irms (A) typ.
RB09143R3ML□-□□□	3.3 $\pm$ 20%	20	7.960	70.0	0.027	11.33	3.60
RB09144R7ML□-□□□	4.7 $\pm$ 20%	20	7.960	50.0	0.033	10.00	3.20
RB09146R8ML□-□□□	6.8 $\pm$ 20%	20	7.960	30.0	0.039	8.50	3.00
RB0914100KL□-□□□	10.0 $\pm$ 10%	50	2.520	20.0	0.048	6.70	2.70
RB0914120KL□-□□□	12.0 $\pm$ 10%	50	2.520	15.0	0.055	6.20	2.50
RB0914150KL□-□□□	15.0 $\pm$ 10%	50	2.520	10.0	0.060	5.30	2.40
RB0914180KL□-□□□	18.0 $\pm$ 10%	40	2.520	9.5	0.065	5.00	2.30
RB0914220KL□-□□□	22.0 $\pm$ 10%	40	2.520	9.0	0.090	4.50	1.90
RB0914270KL□-□□□	27.0 $\pm$ 10%	40	2.520	8.5	0.110	4.00	1.80
RB0914330KL□-□□□	33.0 $\pm$ 10%	40	2.520	8.0	0.120	3.80	1.70
RB0914390KL□-□□□	39.0 $\pm$ 10%	30	2.520	7.0	0.130	3.40	1.60
RB0914470KL□-□□□	47.0 $\pm$ 10%	30	2.520	6.0	0.140	3.20	1.56
RB0914560KL□-□□□	56.0 $\pm$ 10%	30	2.520	5.0	0.200	3.00	1.50
RB0914680KL□-□□□	68.0 $\pm$ 10%	30	2.520	4.5	0.210	2.70	1.33
RB0914820KL□-□□□	82.0 $\pm$ 10%	30	2.520	4.0	0.230	2.50	1.28
RB0914101KL□-□□□	100.0 $\pm$ 10%	30	0.796	3.5	0.280	2.10	1.10
RB0914121KL□-□□□	120.0 $\pm$ 10%	30	0.796	3.0	0.320	1.90	1.05
RB0914151KL□-□□□	150.0 $\pm$ 10%	30	0.796	2.8	0.370	1.80	1.00
RB0914181KL□-□□□	180.0 $\pm$ 10%	30	0.796	2.6	0.540	1.63	0.87
RB0914221KL□-□□□	220.0 $\pm$ 10%	30	0.796	2.4	0.600	1.50	0.80
RB0914271KL□-□□□	270.0 $\pm$ 10%	20	0.796	2.2	0.680	1.40	0.77
RB0914331KL□-□□□	330.0 $\pm$ 10%	20	0.796	2.0	0.760	1.25	0.74
RB0914391KL□-□□□	390.0 $\pm$ 10%	20	0.796	1.9	0.850	1.15	0.70
RB0914471KL□-□□□	470.0 $\pm$ 10%	20	0.796	1.8	1.300	1.00	0.56
RB0914561KL□-□□□	560.0 $\pm$ 10%	20	0.796	1.7	1.400	0.95	0.52
RB0914681KL□-□□□	680.0 $\pm$ 10%	20	0.796	1.6	1.600	0.90	0.49
RB0914821KL□-□□□	820.0 $\pm$ 10%	20	0.796	1.5	1.800	0.83	0.46
RB0914102KL□-□□□	1000.0 $\pm$ 10%	40	0.252	1.3	2.100	0.65	0.42

1. Electrical specifications at 25°C
2. Isat base on $\Delta L/L0A=10\%$ typ. (Approximately transient current)
3. Irms base on Temp. rise 40°C typ.

RB1314-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	AØ	B	C	D	E	F	WØ
RB1314-L	11.70±0.80	12.00±1.00	15.00±3.00	18.00±3.00	2.50 max.	9.00±1.00 (A) 7.00±0.80 (B)	Per spec. (A) 0.80 (B)

DESCRIPTION

- Ferrite drum core construction
- Enamelled copper wire: F class
- Product weight: 4.60g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)

RB1314-L Series

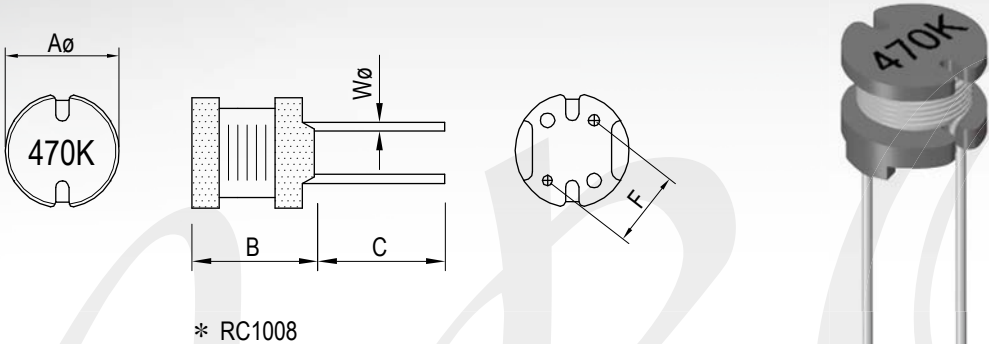
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) typ.	RDC (Ω) max.	IDC (A) max.	W $\varnothing$ m/m
			L	Q				
RB13143R3ML □-□□□	3.3 $\pm$ 20%	90	1k	7.96M	59.00	0.008	5.600	0.8
RB13144R7ML □-□□□	4.7 $\pm$ 20%	100	1k	7.96M	45.00	0.009	4.700	
RB13146R8ML □-□□□	6.8 $\pm$ 20%	80	1k	7.96M	34.00	0.012	3.900	
RB1314100ML □-□□□	10.0 $\pm$ 20%	140	1k	2.52M	26.00	0.015	3.200	0.7
RB1314150ML □-□□□	15.0 $\pm$ 20%	120	1k	2.52M	19.00	0.019	2.600	
RB1314220KL □-□□□	22.0 $\pm$ 10%	110	1k	2.52M	14.00	0.026	2.200	
RB1314330KL □-□□□	33.0 $\pm$ 10%	100	1k	2.52M	10.00	0.045	1.800	0.6
RB1314470KL □-□□□	47.0 $\pm$ 10%	90	1k	2.52M	8.30	0.056	1.500	
RB1314680KL □-□□□	68.0 $\pm$ 10%	80	1k	2.52M	6.70	0.092	1.200	
RB1314101KL □-□□□	100.0 $\pm$ 10%	70	1k	796k	5.40	0.120	1.000	0.8
RB1314151KL □-□□□	150.0 $\pm$ 10%	70	1k	796k	4.30	0.200	0.820	
RB1314221KL □-□□□	220.0 $\pm$ 10%	40	1k	796k	3.40	0.250	0.680	
RB1314331KL □-□□□	330.0 $\pm$ 10%	40	1k	796k	2.70	0.420	0.550	
RB1314471KL □-□□□	470.0 $\pm$ 10%	30	1k	796k	2.30	0.510	0.460	
RB1314681KL □-□□□	680.0 $\pm$ 10%	30	1k	796k	1.90	0.790	0.380	
RB1314102KL □-□□□	1000.0 $\pm$ 10%	40	1k	252k	1.60	1.300	0.310	
RB1314152KL □-□□□	1500.0 $\pm$ 10%	30	1k	252k	1.30	1.700	0.250	
RB1314222KL □-□□□	2200.0 $\pm$ 10%	60	1k	252k	1.10	2.900	0.210	
RB1314332KL □-□□□	3300.0 $\pm$ 10%	50	1k	252k	0.90	3.700	0.170	
RB1314472KL □-□□□	4700.0 $\pm$ 10%	50	1k	252k	0.76	5.600	0.140	
RB1314682KL □-□□□	6800.0 $\pm$ 10%	60	1k	252k	0.65	9.400	0.120	
RB1314103KL □-□□□	10000.0 $\pm$ 10%	80	1k	79.6k	0.53	12.000	0.100	
RB1314153KL □-□□□	15000.0 $\pm$ 10%	70	1k	79.6k	0.41	15.000	0.082	

1. Electrical specifications at 25°C
2. IDC: base on temp. rise 20°C max.
3. Lead: 0.6 $\varnothing$ ~0.8 $\varnothing$ m/m soldered copper wire (3.3uH~47uH)
Lead: 0.8 $\varnothing$ m/m tinned copper wire (68uH~15mH)

RC1008/1010-L Series

CONFIGURATION & DIMENSIONS



* RC1008

Unit: mm

Series	AØ	B	C	F	WØ
RC1008-L	10.00±0.50	8.00±0.50	18.00±3.00	6.40 typ.	0.80±0.05
RC1010-L	10.50 max.	10.50 max.	18.00±3.00	6.40 typ.	0.80±0.05

DESCRIPTION

- Ferrite drum core construction
- Enamelled copper wire: F class
- Product weight: 2.75 (1008) / 3.50 (1010)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)

RC1008/1010-L Series

ELECTRICAL CHARACTERISTICS

■ RC1008-L Series

DWG. No.	Inductance (μ H)	Test Freq. L	SRF (MHz) typ.	RDC (Ω)		I _{rms} (A) typ.	I _{sat} (A) typ.
				max.	typ.		
RC1008100ML□-□□□	10 $\pm$ 20%	1V/1kHz	22.00	0.026	0.019	4.50	4.70
RC1008150ML□-□□□	15 $\pm$ 20%	1V/1kHz	16.50	0.035	0.026	3.80	4.00
RC1008220ML□-□□□	22 $\pm$ 20%	1V/1kHz	14.00	0.050	0.034	3.00	3.30
RC1008330ML□-□□□	33 $\pm$ 20%	1V/1kHz	10.00	0.070	0.050	2.50	2.70
RC1008470KL□-□□□	47 $\pm$ 10%	1V/1kHz	9.20	0.098	0.077	2.20	2.40
RC1008680KL□-□□□	68 $\pm$ 10%	1V/1kHz	7.00	0.145	0.112	1.80	2.00
RC1008101KL□-□□□	100 $\pm$ 10%	1V/1kHz	6.00	0.210	0.165	1.40	1.60
RC1008151KL□-□□□	150 $\pm$ 10%	1V/1kHz	4.90	0.300	0.238	1.20	1.40
RC1008221KL□-□□□	220 $\pm$ 10%	1V/1kHz	3.80	0.420	0.335	1.00	1.10
RC1008331KL□-□□□	330 $\pm$ 10%	1V/1kHz	3.30	0.660	0.530	0.80	0.92
RC1008471KL□-□□□	470 $\pm$ 10%	1V/1kHz	2.70	0.860	0.685	0.72	0.80
RC1008681KL□-□□□	680 $\pm$ 10%	1V/1kHz	2.20	1.280	1.020	0.56	0.63
RC1008102KL□-□□□	1000 $\pm$ 10%	1V/1kHz	1.65	1.850	1.510	0.46	0.54

1. Electrical specifications at 25°C
2. I_{rms} base on temp. rise 30°C typ.
3. I_{sat} base on $\Delta L/L_0 A=10\%$ typ.

■ RC1010-L Series

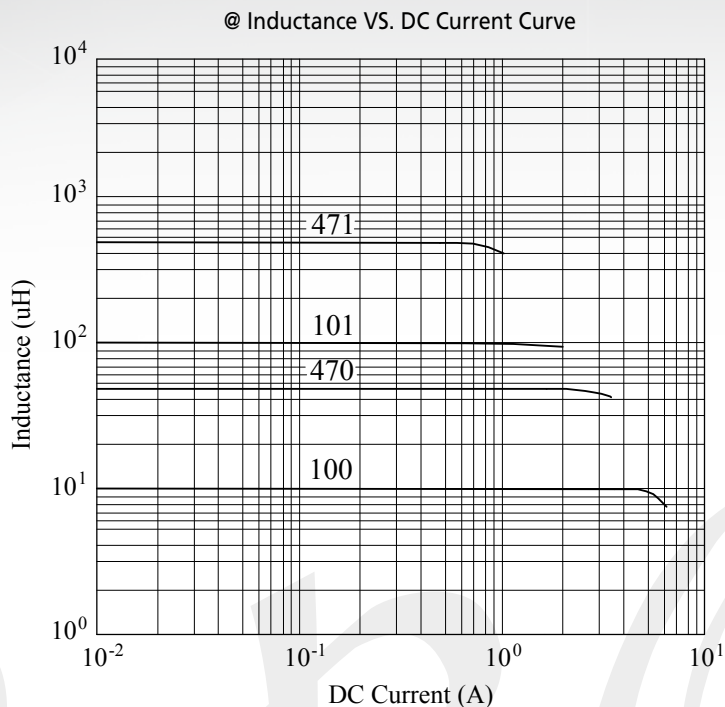
DWG. No.	Inductance (μ H)	Test Freq. L	SRF (MHz) typ.	RDC (Ω)		I _{rms} (A) typ.	I _{sat} (A) typ.
				max.	typ.		
RC1010100ML□-□□□	10 $\pm$ 20%	1V/1kHz	16.0	0.023	0.017	4.80	4.80
RC1010150ML□-□□□	15 $\pm$ 20%	1V/1kHz	14.0	0.028	0.020	4.30	4.00
RC1010220ML□-□□□	22 $\pm$ 20%	1V/1kHz	11.5	0.040	0.029	3.60	3.30
RC1010330ML□-□□□	33 $\pm$ 20%	1V/1kHz	8.5	0.050	0.037	3.20	3.00
RC1010470KL□-□□□	47 $\pm$ 10%	1V/1kHz	7.0	0.070	0.053	2.60	2.50
RC1010680KL□-□□□	68 $\pm$ 10%	1V/1kHz	5.5	0.098	0.076	2.15	2.00
RC1010101KL□-□□□	100 $\pm$ 10%	1V/1kHz	5.0	0.128	0.100	1.90	1.70
RC1010151KL□-□□□	150 $\pm$ 10%	1V/1kHz	4.2	0.220	0.165	1.45	1.40
RC1010221KL□-□□□	220 $\pm$ 10%	1V/1kHz	3.2	0.320	0.245	1.20	1.10
RC1010331KL□-□□□	330 $\pm$ 10%	1V/1kHz	2.6	0.460	0.350	1.00	0.95
RC1010471KL□-□□□	470 $\pm$ 10%	1V/1kHz	2.2	0.620	0.492	0.85	0.80
RC1010681KL□-□□□	680 $\pm$ 10%	1V/1kHz	2.0	0.940	0.745	0.70	0.64
RC1010102KL□-□□□	1000 $\pm$ 10%	1V/1kHz	1.6	1.300	1.060	0.60	0.56

1. Electrical specifications at 25°C
2. I_{rms} base on temp. rise 30°C typ.
3. I_{sat} base on $\Delta L/L_0 A=10\%$ typ.

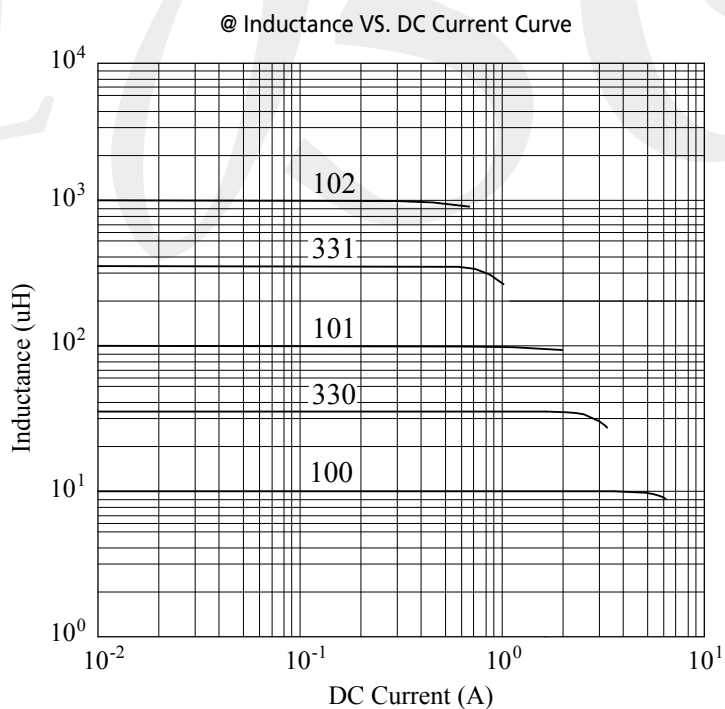
RC1008/1010-L Series

CURVE

■ RC1008-L Series

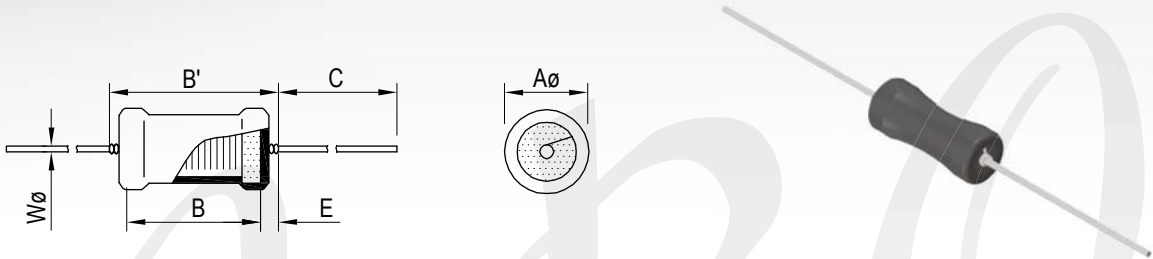


■ RC1010-L Series



PA0618/1020/1226-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	AØ	B	B'	C	E	WØ
PA0618-L	6.00 max.	13.00±1.00	18.00 max.	25.00±5.00	3.00 max.	0.65±0.05
PA1020-L	10.00 max.	15.00±1.00	20.00 max.	25.00±5.00	3.00 max.	0.65±0.05
PA1226-L	12.00 max.	20.00±1.00	26.00 max.	25.00±5.00	3.00 max.	0.80±0.05

PA

DESCRIPTION

- Ferrite drum core construction
- Enamelled copper wire: F class
- Product weight: 1.30 (0618) / 3.63 (1020) / 7.68 (1226)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)

PA0618/1020/1226-L Series

ELECTRICAL CHARACTERISTICS

■ PA0618-L Series

DWG. No.	Inductance (μH)	Test Freq. (Hz)	RDC (Ω) max.	IDC (A) max.
PA0618100KL□-□□□	10±10%	1k	0.075	2.00
PA0618250KL□-□□□	25±10%	1k	0.150	1.20
PA0618500KL□-□□□	50±10%	1k	0.200	0.80
PA0618101KL□-□□□	100±10%	1k	0.300	0.60
PA0618251KL□-□□□	250±10%	1k	1.000	0.40
PA0618501KL□-□□□	500±10%	1k	2.000	0.25
PA0618102KL□-□□□	1000±10%	1k	3.000	0.20

1. Electrical specifications at 25°C
2. IDC base on temp. rise 45°C max. & ΔL/L0A=10% max.

■ PA1020-L Series

DWG. No.	Inductance (μH)	Test Freq. (Hz)	RDC (Ω) max.	IDC (A) max.
PA1020100KL□-□□□	10±10%	1k	0.050	3.50
PA1020250KL□-□□□	25±10%	1k	0.085	2.50
PA1020500KL□-□□□	50±10%	1k	0.120	2.00
PA1020101KL□-□□□	100±10%	1k	0.180	1.40
PA1020251KL□-□□□	250±10%	1k	0.500	0.80
PA1020501KL□-□□□	500±10%	1k	1.000	0.60
PA1020102KL□-□□□	1000±10%	1k	2.200	0.40

1. Electrical specifications at 25°C
2. IDC base on temp. rise 45°C max. & ΔL/L0A=10% max.

■ PA1226-L Series

DWG. No.	Inductance (μH)	Test Freq. (Hz)	RDC (Ω) max.	IDC (A) max.
PA1226100KL□-□□□	10±10%	1k	0.030	5.00
PA1226250KL□-□□□	25±10%	1k	0.045	4.00
PA1226500KL□-□□□	50±10%	1k	0.080	3.00
PA1226101KL□-□□□	100±10%	1k	0.125	2.00
PA1226251KL□-□□□	250±10%	1k	0.300	1.20
PA1226501KL□-□□□	500±10%	1k	0.500	0.80
PA1226102KL□-□□□	1000±10%	1k	1.200	0.60

1. Electrical specifications at 25°C
2. IDC base on temp. rise 45°C max. & ΔL/L0A=10% max.

PV1620/1823-L Series

CONFIGURATION & DIMENSIONS

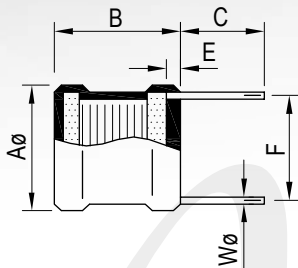


Fig : A

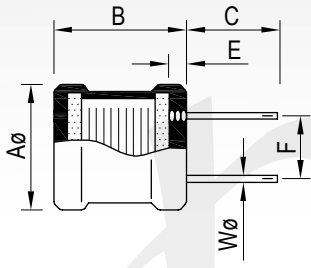


Fig : B



Unit: mm

Series	Aø	B	C	E
PV1620-L	16.00 max.	20.00 max.	15.00±5.00	3.00 max.
PV1823-L	18.00 max.	23.00 max.	15.00±5.00	3.00 max.

PV

DESCRIPTION

- Ferrite drum core construction
- Enamelled copper wire: F class
- Product weight: 9.05 (1620) / 17.5 (1823)g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C (Temp. rise included)

PV1620/1823-L Series

ELECTRICAL CHARACTERISTICS

■ PV1620-L Series

DWG. No.	Inductance (μH)	Test Freq. (Hz)	RDC (Ω) max.	IDC (A) max.	Dimensions (mm)		Fig
					F	WØ	
PV1620100ML □-□□□	10±20%	1k	0.024	5.0	8.00±1.5	1.00±0.1	B
PV1620250KL □-□□□	25±10%	1k	0.040	4.0			
PV1620500KL □-□□□	50±10%	1k	0.060	3.0			
PV1620101KL □-□□□	100±10%	1k	0.090	2.0			
PV1620251KL □-□□□	250±10%	1k	0.180	1.5			
PV1620501KL □-□□□	500±10%	1k	0.400	1.0			
PV1620102KL □-□□□	1000±10%	1k	0.800	0.7			

1. Electrical specifications at 25°C

2. IDC base on temp. rise 45°C max. & ΔL/L0A=10% max.

■ PV1823-L Series

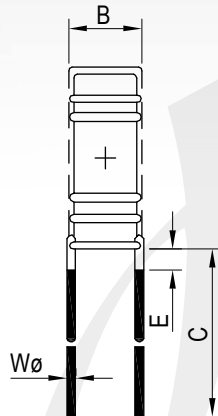
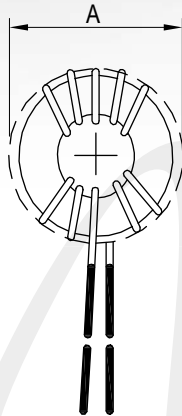
DWG. No.	Inductance (μH)	Test Freq. (Hz)	RDC (Ω) max.	IDC (A) max.	Dimensions (mm)		Fig
					F	WØ	
PV1823100ML □-□□□	10±20%	1k	0.009	8.0	14.0	1.2	A
PV1823250KL □-□□□	25±10%	1k	0.022	6.0	14.0	1.0	A
PV1823500KL □-□□□	50±10%	1k	0.036	4.0	14.0	1.0	A
PV1823101KL □-□□□	100±10%	1k	0.090	3.0	9.0	1.0	B
PV1823251KL □-□□□	250±10%	1k	0.150	2.0	9.0	1.0	B
PV1823501KL □-□□□	500±10%	1k	0.300	1.2	9.0	1.0	B
PV1823102KL □-□□□	1000±10%	1k	0.600	1.0	9.0	1.0	B

1. Electrical specifications at 25°C

2. IDC base on temp. rise 45°C max. & ΔL/L0A=10% max.

TR0806/1307/1711/1714/2313/2616/3217-L Series

CONFIGURATION & DIMENSIONS



DESCRIPTION

- Ferrite toroidal core construction
- Enamelled copper wire: F class
- Product weight: 50.30 g (ref.)(TR3217)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +125°C
- Operating temp.: -40°C~ +125°C
(Temp. rise included)

TR0806/1307/1711/1714/2313/2616/3217-L Series

ELECTRICAL CHARACTERISTICS

■ TR-L Series

DWG. No.	Inductance (μ H) min.	DC Resistance (m Ω) max.	Rated Current (A)	Dimensions (mm)				
				A max.	B max.	C	E max.	W $\varnothing$
TR0806100YL□-□□□	10	45	1	8.5	6.0	20.0 $\pm$ 5	3	0.4
TR1307250YL□-□□□	25	85	2	13.5	7.5	20.0 $\pm$ 5	3	0.4
TR1711260YL□-□□□	26	55	2	17.0	11.0	25.0 $\pm$ 5	3	0.6
TR1711460YL□-□□□	46	70	2	17.0	11.0	25.0 $\pm$ 5	3	0.6
TR1711720YL□-□□□	72	85	2	17.0	11.0	25.0 $\pm$ 5	3	0.6
TR1714450YL□-□□□	45	75	2	17.0	14.0	25.0 $\pm$ 5	3	0.6
TR1714800YL□-□□□	80	85	2	17.0	14.0	25.0 $\pm$ 5	3	0.6
TR1714131YL□-□□□	125	100	2	17.0	14.0	25.0 $\pm$ 5	3	0.6
TR2313400YL□-□□□	40	40	3	23.0	13.0	25.0 $\pm$ 5	3	0.8
TR2313720YL□-□□□	72	50	3	23.0	13.0	25.0 $\pm$ 5	3	0.8
TR2313111YL□-□□□	110	70	3	23.0	13.0	25.0 $\pm$ 5	3	0.8
TR2616350YL□-□□□	35	30	5	26.0	16.0	25.0 $\pm$ 5	3	1.0
TR2616640YL□-□□□	64	40	5	26.0	16.0	25.0 $\pm$ 5	3	1.0
TR2616101YL□-□□□	100	50	5	26.0	16.0	25.0 $\pm$ 5	3	1.0
TR3217450YL□-□□□	45	40	5	32.0	17.0	25.0 $\pm$ 3	3	1.0
TR3217900YL□-□□□	90	50	5	32.0	17.0	25.0 $\pm$ 3	3	1.0
TR3217141YL□-□□□	140	70	5	32.0	17.0	25.0 $\pm$ 3	3	1.0

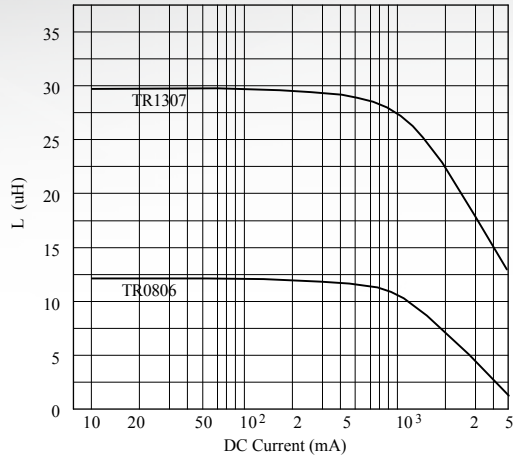
1. Electrical specifications at 25°C
2. Rated current base on temp. rise: 40°C max.

TR0806/1307/1711/1714/2313/2616/3217-L Series

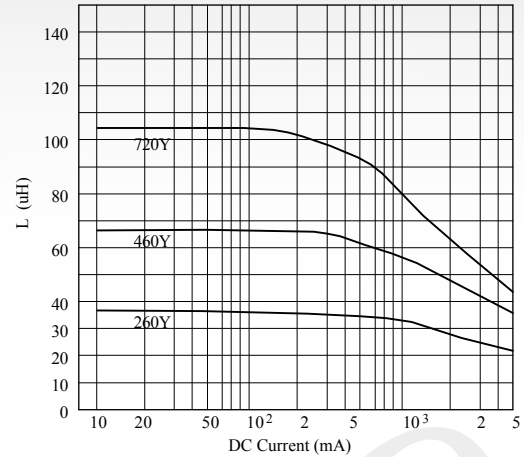
CURVE

■ TR-L Series

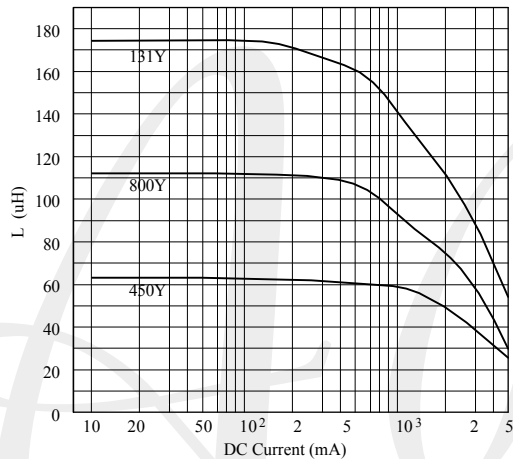
TR0806-L & TR1307-L



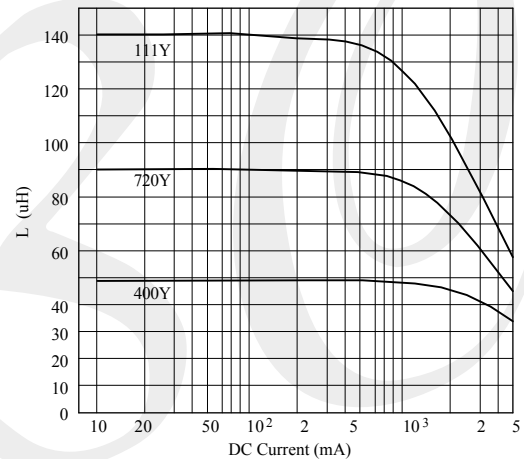
TR1711-L



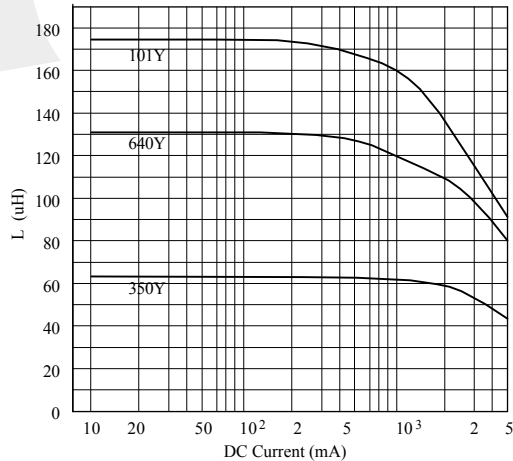
TR1714-L



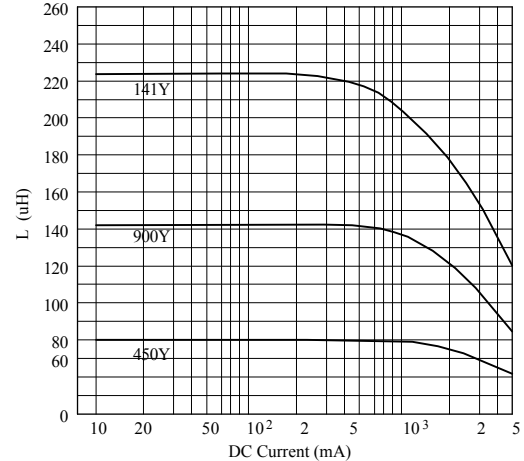
TR2313-L



TR2616-L

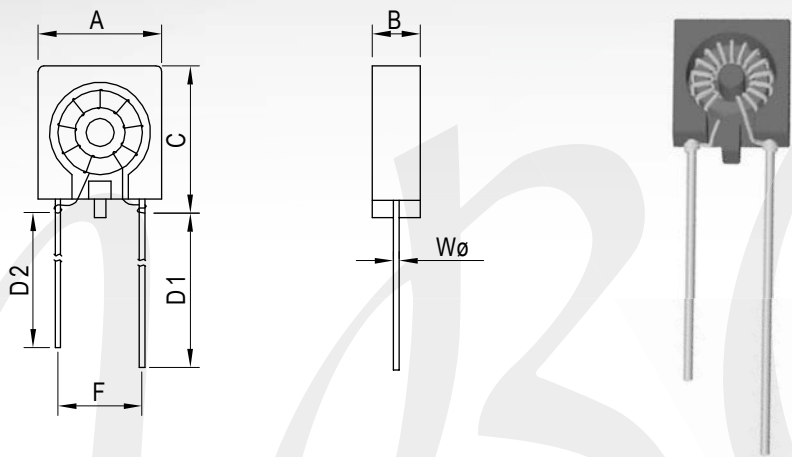


TR3217-L



TB0703-L Series

CONFIGURATION & DIMENSIONS



Unit: mm

Series	A	B	C	D1	D2	F	WØ
TB0703-L	7.50 max.	3.20 max.	9.00 max.	20.00±1.00	15.00±1.00	5.00±0.30	0.60±0.05

DESCRIPTION

- Ferrite toroidal core construction
- Enamelled copper wire: F class
- Product weight: 3.70g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +105°C
- Operating temp.: -40°C~ +105°C (Temp. rise included)

TB

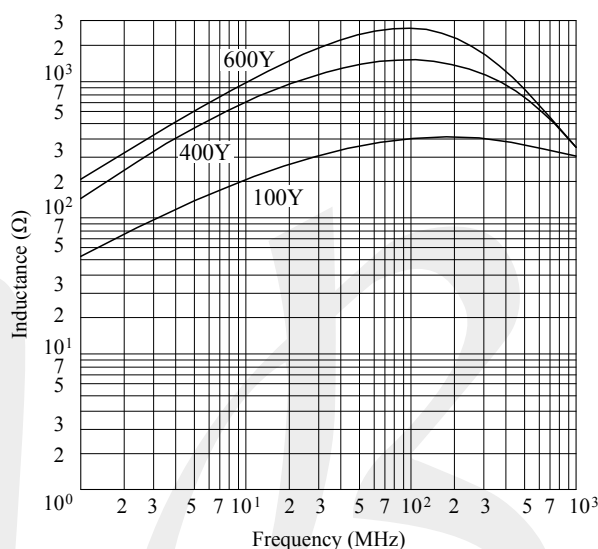
TB0703-L Series

ELECTRICAL CHARACTERISTICS

DWG. No.	Rated Voltage (V)	Rated Current (mA)	Inductance (μ H)	DC Resistance ($m\Omega$) max.	Insulation Voltage (Line to case) (VDC)	Insulation resistance (Line to case) ($M\Omega$) min.
TB0703100YL □-□□□	50	700	10.0 $\pm$ 50%	20	200	10
TB0703400YL □-□□□	50	600	40.0 $\pm$ 50%	34	200	10
TB0703600YL □-□□□	50	500	60.0 $\pm$ 50%	50	200	10

1. Electrical specifications at 25°C
2. Temp. rise: 20°C max. at rated current
3. Inductance test condition: LCR meter HP4261A @ 1kHz, 1.0V

CURVE

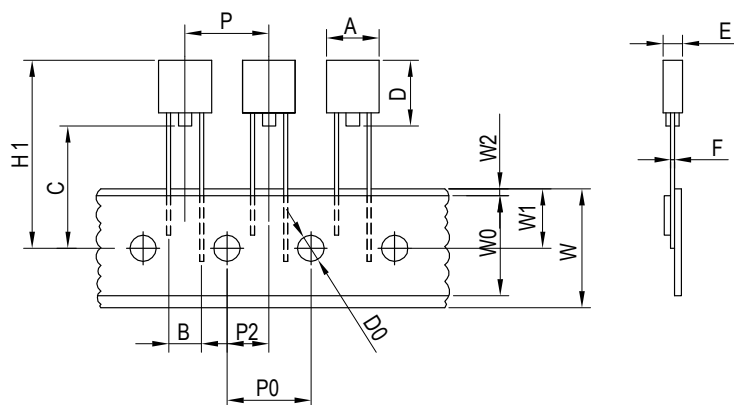


PACKAGING

Packaging information for TB vertical taping in Box:

(Packaging Code : B)

1. Configuration



2. Dimensions

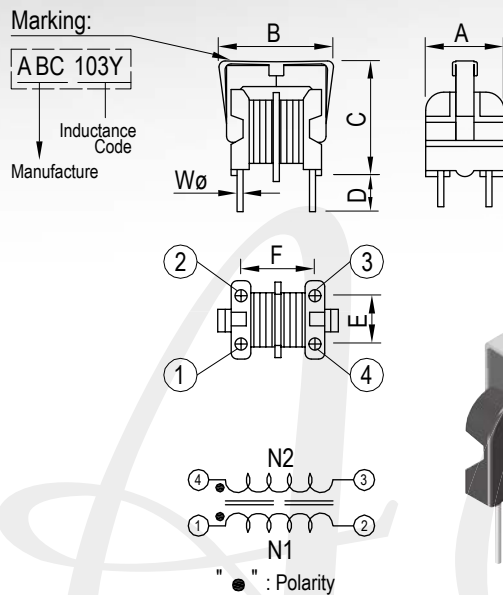
Unit: mm

Item	Specification	Item	Specification
A	8.0 max.	P	12.7 $\pm$ 1.0
B	5.0 $\pm$ 0.5	D0	4.0 $\pm$ 0.2
C	18.5 $\pm$ 0.5	P0	12.7 $\pm$ 0.3
D	9.0 $\pm$ 0.5	P2	6.35 $\pm$ 0.4
E	3.0 $\pm$ 0.5	W	18.0+1.0/-0.5
F	0.6 $\varnothing$	W0	11.0 min.
H1	28.5 max.	W1	9.0 $\pm$ 0.5
		W2	0.5 ref.

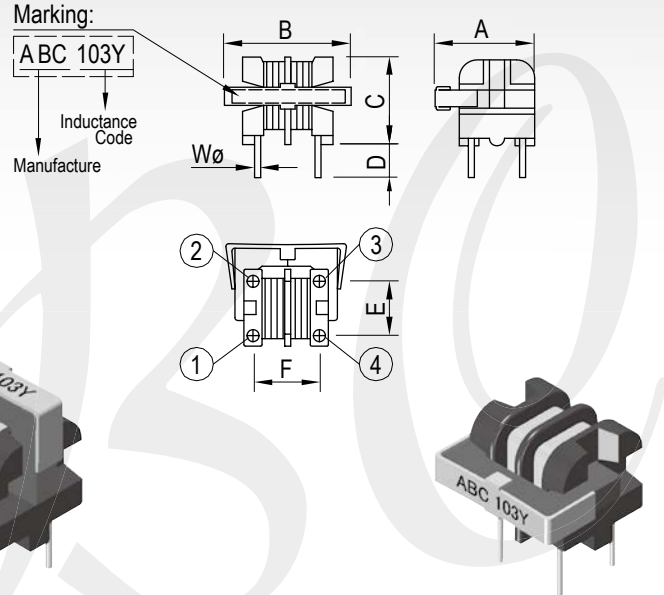
UF09H2/09V2-L Series

CONFIGURATION & DIMENSIONS

■ UF09V2 Series



■ UF09H2 Series



Unit: mm

Series	A	B	C	D	E	F	Wø
UF09V2-L	11.50 max.	16.50 max.	17.00 max.	5.00±1.00	7.00±0.50	8.00±0.50	0.60±0.05
UF09H2-L	15.00 max.	16.50 max.	13.00 max.	5.00±1.00	7.00±0.50	8.00±0.50	0.60±0.05

DESCRIPTION

- Ferrite UU core construction
- Enamelled copper wire: F class
- Product weight: 3.4g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +105°C
- Operating temp.: -25°C~ +85°C (Temp. rise included)
- Pin strength: 1.0KG min.

UF09H2/09V2-L Series

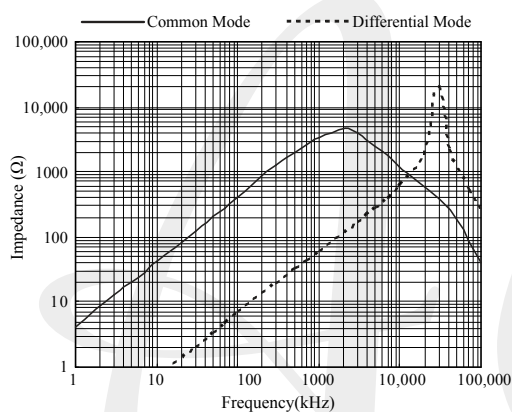
ELECTRICAL CHARACTERISTICS

DWG. No.	Inductance (mH) min.	RDC (Ω) max.	Rated Current (A)
UF09V2/ UF09H2501YL□-□□□	0.5	0.2	1.4
UF09V2/ UF09H2102YL□-□□□	1.0	0.4	1.0
UF09V2/ UF09H2202YL□-□□□	2.0	0.8	0.7
UF09V2/ UF09H2502YL□-□□□	5.0	1.6	0.5
UF09V2/ UF09H2802YL□-□□□	8.0	2.5	0.4
UF09V2/ UF09H2103YL□-□□□	10.0	3.6	0.3

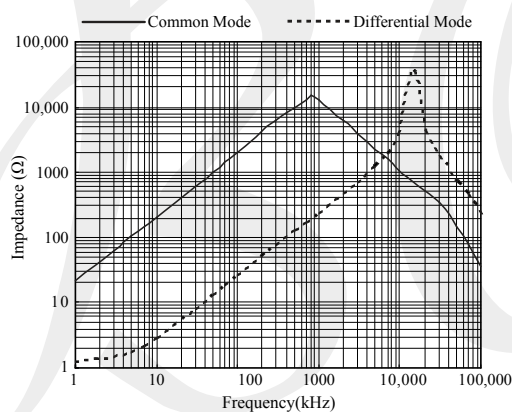
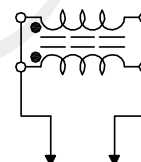
1. Electrical specifications at 25°C
2. Rated current: base on temp. rise at 40°C max.
3. Hi Pot Test: AC 1.5kV / 60Hz / 3mA / 3 Sec

CURVE

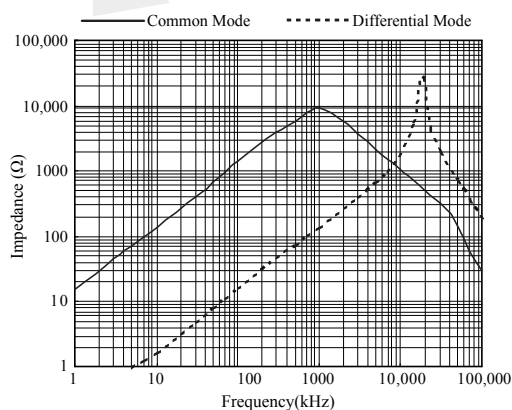
UF09V2/ UF09H2501YL□



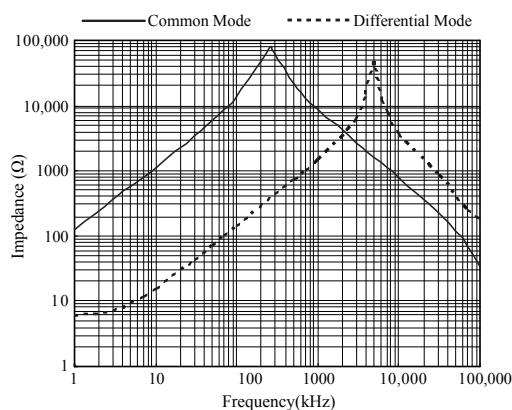
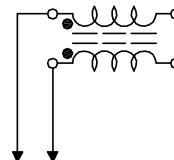
UF09V2/ UF09H2202YL□

Common Mode
Measuring circuit :

UF09V2/ UF09H2102YL□



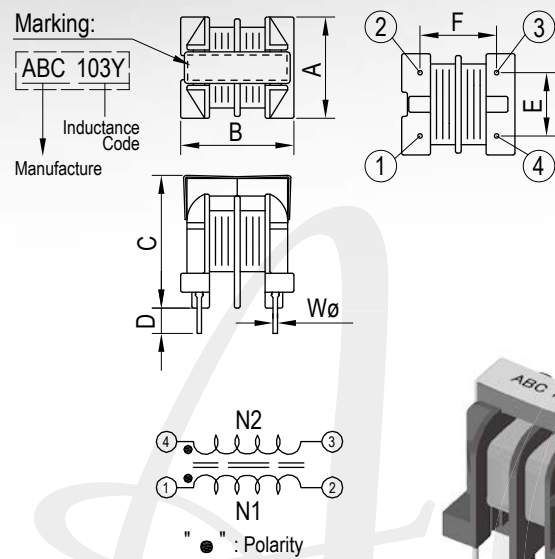
UF09V2/ UF09H2103YL□

Differential Mode
Measuring circuit :

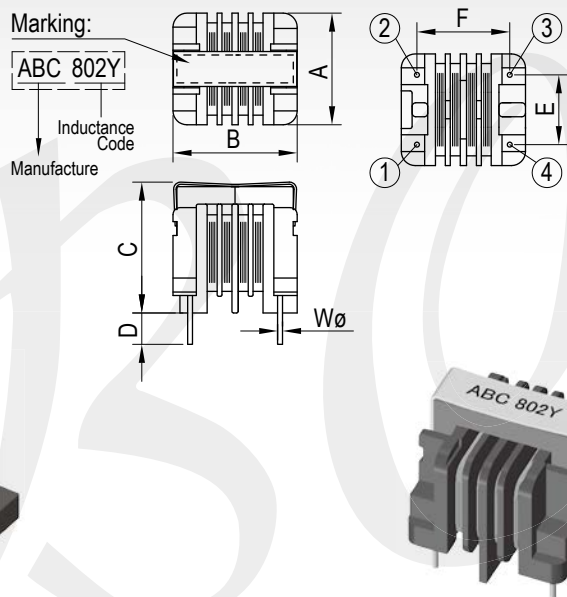
UF10V2/10V4-L Series

CONFIGURATION & DIMENSIONS

■ UF10V2 Series



■ UF10V4 Series



Series	A	B	C	D	E	F	WØ
UF10V2-L	17.00 max.	19.00 max.	22.50 max.	4.50±1.00	10.00±0.50	13.00±0.50	0.70
UF10V4-L	17.00 max.	19.00 max.	20.50 max.	4.50±1.00	10.00±0.50	13.00±0.50	0.70

DESCRIPTION

- Ferrite UU core construction
- Enamelled copper wire: F class
- Product weight: 9.50g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +105°C
- Operating temp.: -25°C~ +85°C (Temp. rise included)
- Pin strength: 1.0KG min.

UF10V2/10V4-L Series

ELECTRICAL CHARACTERISTICS

■ UF10V2 Series

DWG. No.	L (mH) min.	RDC (Ω) max.	Rated Current (A)
UF10V2103YL□-□□□	10.0	2.5	0.4
UF10V2802YL□-□□□	8.0	1.7	0.5
UF10V2502YL□-□□□	5.0	1.0	0.7
UF10V2302YL□-□□□	3.0	0.5	0.8
UF10V2202YL□-□□□	2.0	0.4	1.0
UF10V2102YL□-□□□	1.0	0.2	1.6

1. Electrical specifications at 25°C
2. Temp. rise: 40°C max. at rated current

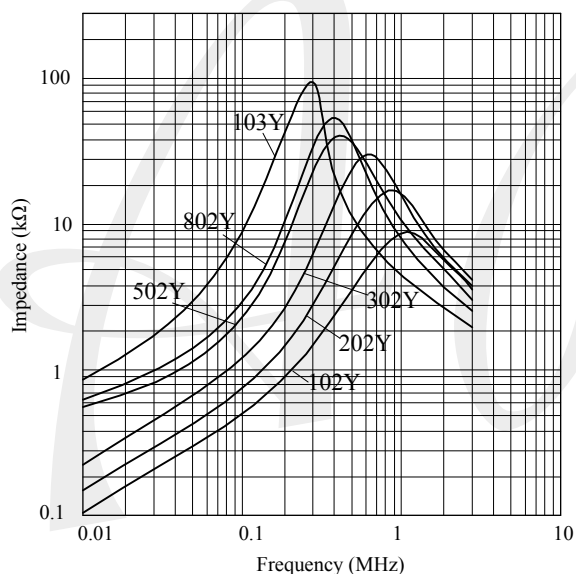
■ UF10V4 Series

DWG. No.	L (mH) min.	RDC (Ω) max.	Rated Current (A)
UF10V4802YL□-□□□	8.0	2.4	0.4
UF10V4502YL□-□□□	5.0	1.5	0.5
UF10V4402YL□-□□□	4.0	1.0	0.7
UF10V4252YL□-□□□	2.5	0.5	0.8
UF10V4162YL□-□□□	1.6	0.4	1.0
UF10V4801YL□-□□□	0.8	0.2	1.6

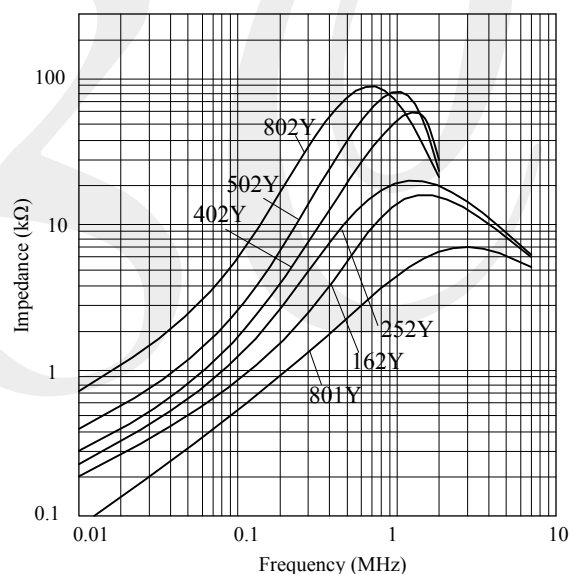
1. Electrical specifications at 25°C
2. Temp. rise: 40°C max. at rated current

CURVE

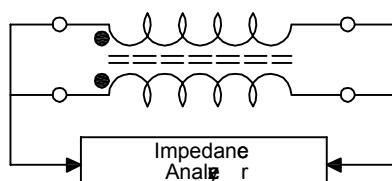
■ UF10V2 Series



■ UF10V4 Series



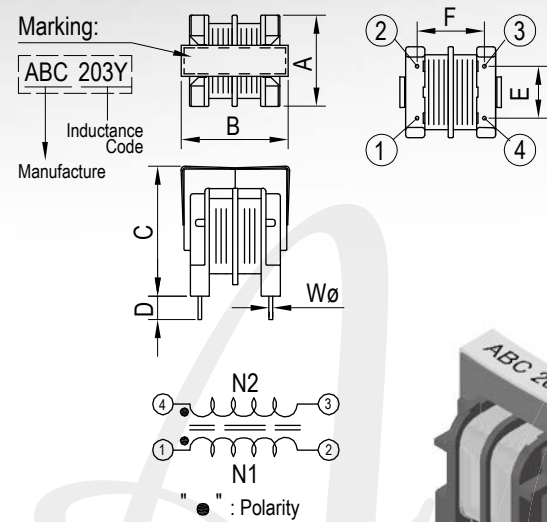
Measuring Circuit:



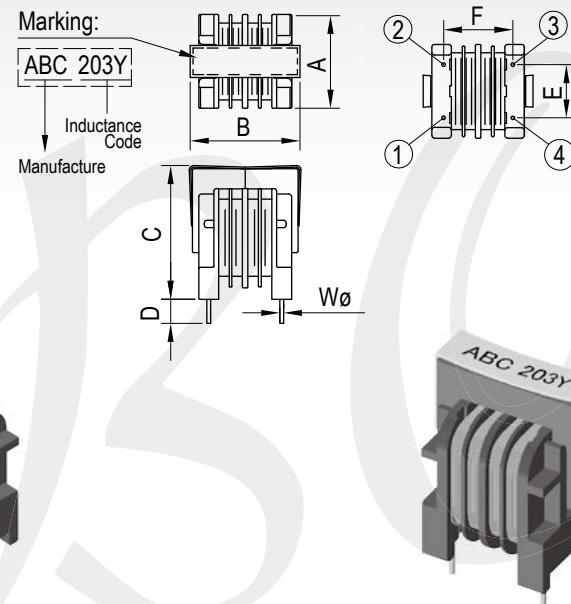
UF15V2/15V4-L Series

CONFIGURATION & DIMENSIONS

■ UF15V2 Series



■ UF15V4 Series



Unit: mm

Series	A	B	C	D	E	F	Wø
UF15V2-L	19.00 max.	23.00 max.	27.50 max.	4.50 ±1.00	10.00±0.50	13.00±0.50	0.70
UF15V4-L							

DESCRIPTION

- Ferrite UU core construction
- Enamelled copper wire: F class
- Product weight: 16.5g (ref.)
- Moisture sensitivity Level 1
- Products comply with RoHS' requirements
- Halogen free

GENERAL SPECIFICATION

- Storage temp.: -40°C~ +105°C
- Operating temp.: -25°C~ +85°C (Temp. rise included)
- Pin strength: 1.0KG min.

UF15V2/15V4-L Series

ELECTRICAL CHARACTERISTICS

■ UF15V2 Series

DWG. No.	L (mH) min.	RDC (Ω) max.	Rated Current (A)
UF15V2203YL□-□□□	20.0	2.00	0.5
UF15V2103YL□-□□□	10.0	1.00	0.7
UF15V2602YL□-□□□	6.0	0.50	0.8
UF15V2402YL□-□□□	4.0	0.30	1.2
UF15V2252YL□-□□□	2.5	0.20	1.6
UF15V2152YL□-□□□	1.5	0.15	1.8

1. Electrical specifications at 25°C
2. Temp. rise: 40°C max. at rated current

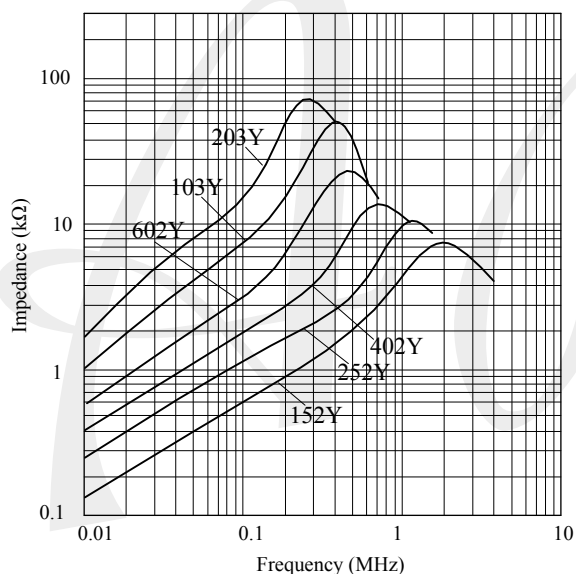
■ UF15V4 Series

DWG. No.	L (mH) min.	RDC (Ω) max.	Rated Current (A)
UF15V4203YL□-□□□	20.0	2.00	0.5
UF15V4103YL□-□□□	10.0	1.00	0.7
UF15V4602YL□-□□□	6.0	0.50	0.8
UF15V4402YL□-□□□	4.0	0.30	1.2
UF15V4252YL□-□□□	2.5	0.20	1.6
UF15V4152YL□-□□□	1.5	0.15	1.8

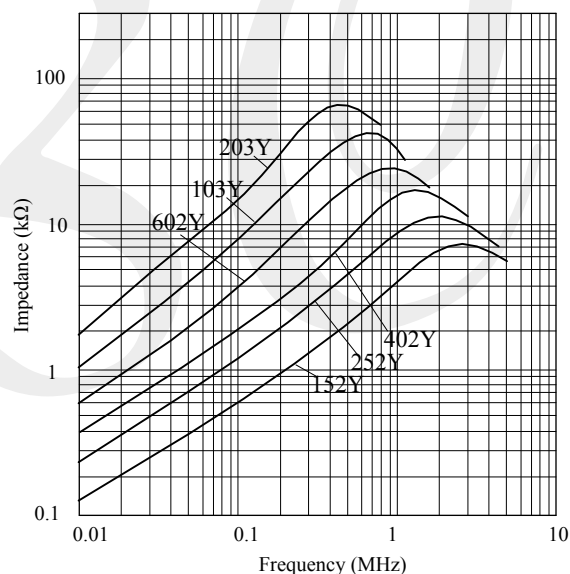
1. Electrical specifications at 25°C
2. Temp. rise: 40°C max. at rated current

CURVE

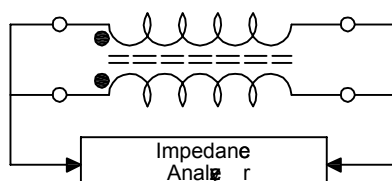
■ UF15V2 Series



■ UF15V4 Series

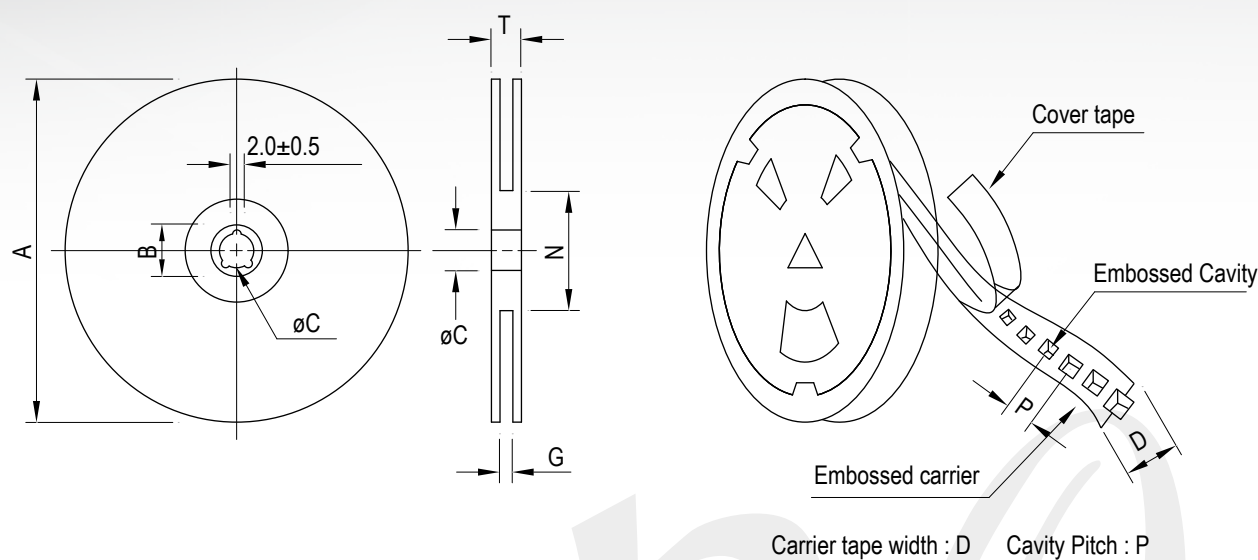


Measuring Circuit:



Packaging Information For SMD Type

CONFIGURATION



DIMENSIONS

Unit: mm

Style	A	B	C	D	G	N	T
07 - 08	178	21±0.8	13	8	10 ⁺⁰	50 ⁻⁰	12.5
07 - 12	178	21±0.8	13	12	14 ⁺⁰	50 ⁻⁰	16.5
07 - 16	178	21±0.8	13	16	18 ⁺⁰	50 ⁻⁰	20.5
13 - 12	330	21±0.8	13±0.5	12	14 ⁺⁰	50 ⁻⁰	18.4
13 - 16	330	21±0.8	13±0.5	16	18 ⁺⁰	50 ⁻⁰	22.4
13 - 24	330	21±0.8	13±0.5	24	26 ⁺⁰	60 ⁻⁰	30.4
13 - 32	330	21±0.8	13±0.5	32	34 ⁺⁰	100 ⁻⁰	38.4
13 - 44	330	21±0.8	13 ^{+0.5} _{-0.2}	44.0±0.3	44.4 ^{+2.0} ₋₀	100 ⁻⁰	50.4

Packaging Information For SMD Type

Q'TY PER PACKAGE

Series	Inner : Reel			Outer : Carton	
	Q'TY (pcs)	Style	P (m/m)	Q'TY (pcs)	Size (cm)
CM3225-L	1,000	07 – 08	4	50,000	41x39x22
CM4532-L	500	07 – 12	8	20,000	41x39x22
CC3225-L	1,000	07 – 08	4	50,000	41x39x22
CC4532-L	500	07 – 12	8	20,000	41x39x22
SWI0402 CT	10,000	07 – 08	2	200,000	38.5x19.5x14.5
SWI0603 CT	3,000	07 – 08	4	60,000	38.5x19.5x14.5
SWI0603 CS	3,000	07 – 08	4	60,000	38.5x19.5x14.5
SWI0805 CT	2,000	07 – 08	4	40,000	38.5x19.5x14.5
SWI0805 FT	2,000	07 – 08	4	40,000	38.5x19.5x14.5
SWI0805 CS	2,000	07 – 08	4	40,000	38.5x19.5x14.5
SWI1008 CT	2,000	07 – 08	4	40,000	38.5x19.5x14.5
SWI1008 FT	2,000	07 – 08	4	40,000	38.5x19.5x14.5
SWI1210 CT	2,000	07 – 08	4	40,000	38.5x19.5x14.5
SWI1210 FT	2,000	07 – 08	4	40,000	38.5x19.5x14.5
SWI0402 HP	10,000	07 – 08	2	200,000	38.5x19.5x14.5
SWI0603 HP	3,000	07 – 08	4	60,000	38.5x19.5x14.5
HCI0805 FT	2,000	07 – 08	4	40,000	38.5x19.5x14.5
SWI1008 CT-KI	2,000	07 – 08	4	40,000	38.5x19.5x14.5
SWI1008 FT-KI	2,000	07 – 08	4	40,000	38.5x19.5x14.5
SWI1008 HQ	2,000	07 – 08	4	40,000	38.5x19.5x14.5
SWI1008 PT	750	07 – 12	8	12,000	38.5x19.5x14.5
LPI0603 FT	3,000	07 – 08	4	60,000	38.5x19.5x14.5
LPI0805 FT	2,000	07 – 08	4	40,000	38.5x19.5x14.5
LPI1210 FT	2,000	07 – 08	4	40,000	38.5x19.5x14.5
MH1005-L	10,000	07 – 08	2	500,000	42x41x24
MH1608-L	4,000	07 – 08	4	200,000	41x39x22
MS1608-L	4,000	07 – 08	4	200,000	41x39x22
MS2029-L	4,000	07 – 08	4	200,000	41x39x22
MS2022-L	3,000	07 – 08	4	150,000	41x39x22
AL0603-L	10,000	07 – 08	2	500,000	41x39x22
AL1005-L	10,000	07 – 08	2	500,000	41x39x22
SM1608-L	4,000	07 – 08	4	200,000	41x39x22
SM2029-L	4,000	07 – 08	4	200,000	41x39x22
MU1005-L	10,000	07 – 08	2	500,000	42x41x24
M□1608-L	4,000	07 – 08	4	200,000	41x39x22
M□2029-L	4,000	07 – 08	4	200,000	41x39x22
MB1608-L	4,000	07 – 08	4	200,000	41x39x22
MB2029-L	4,000	07 – 08	4	200,000	41x39x22
MB4030-L	500	07 – 12	8	20,000	41x39x22
MB8530-L	500	07 – 16	8	15,000	41x39x22

Packaging Information For SMD Type

Series	Inner : Reel			Outer : Carton	
	Q'TY (pcs)	Style	P (m/m)	Q'TY (pcs)	Size (cm)
SR0302-L	2,000	13 – 12	8	16,000	38x37x22
SR0403-L	2,000	13 – 12	8	16,000	38x37x22
SR0502-L	800	07 – 12	8	32,000	42x41x24
SR0503-L	500	07 – 12	8	20,000	42x41x24
SR0602-L	700	07 – 12	8	28,000	42x41x24
SR0603-L	400	07 – 12	8	16,000	42x41x24
SR0805-L	1,000	13 – 16	12	6,000	38x37x22
SR0906-L	600	13 – 24	16	2,400	38x37x22
SR1006-L	800	13 – 24	12	3,200	38x37x22
BR0604-L	1,500	13 – 12	8	12,000	38x37x22
SQ3216-3	2,000	07 – 08	4	100,000	42x41x24
SQ3225-L	1,000	07 – 08	4	50,000	42x41x24
SQ4532-L	500	07 – 12	8	20,000	42x41x24
SQ5650-L	1,000	13 – 16	12	6,000	38x37x22
SB7030-L	1,500	13 – 16	12	9,000	38x37x22
SB7045-L	1,000	13 – 16	12	6,000	38x37x22
SB1005-L	600	13 – 24	16	2,400	38x37x22
SB1608-2	600	07 – 12	8	24,000	42x41x24
SB0805-F	800	13 – 24	12	3,200	38x37x22
SB1806-L	250	13 – 32	20	1,000	38x37x22
SB2207-L	250	13 – 32	20	1,000	38x37x22
CB2010-L	3,000	07 – 08	4	150,000	42x41x24
TPI2410	2,000	07 – 08	4	40,000	38.5x19.5x14.5
TPI2510	2,000	07 – 08	4	40,000	38.5x19.5x14.5
TPI2512	2,000	07 – 08	4	40,000	38.5x19.5x14.5
TPI2515	2,000	07 – 08	4	40,000	38.5x19.5x14.5
TPI3010	2,000	07 – 08	4	40,000	38.5x19.5x14.5
TPI3012	2,000	07 – 08	4	40,000	38.5x19.5x14.5
TPI3015	2,000	07 – 08	4	40,000	38.5x19.5x14.5
TPI4018	3,000	13 – 12	8	60,000	38.5x37x42
TPI4025	3,000	13 – 12	8	60,000	38.5x37x42
TPI5020	2,000	13 – 12	8	40,000	38.5x37x42
TPI5040	1,000	13 – 12	8	20,000	38.5x37x42
TPI6020	2,000	13 – 12	8	40,000	38.5x37x42
TPI6028	1,000	13 – 12	8	20,000	38.5x37x42
TPI6045	1,000	13 – 16	12	16,000	38.5x37x42
RN6045-F	1,000	13 – 16	12	6,000	38x37x22
RN8040-L	1,200	13 – 16	12	7,200	38x37x22
RN1060-L	600	13 – 24	16	2,400	38x37x22
SU4018-L	1,000	07 – 12	8	40,000	42x41x24
SU5016-L	1,000	07 – 12	8	40,000	42x41x24
SU5018-L	1,000	07 – 12	8	40,000	42x41x24

Packaging Information For SMD Type

Series	Inner : Reel			Outer : Carton	
	Q'TY (pcs)	Style	P (m/m)	Q'TY (pcs)	Size (cm)
SU5028-L	600	07 – 12	8	24,000	42x41x24
SU6018-F	800	07 – 12	8	32,000	42x41x24
SU6025-F	600	07 – 12	8	24,000	42x41x24
SU8028-F	1,500	13 – 16	12	9,000	38x37x22
SU8030-F	400	07 – 16	12	12,000	42x41x24
SU8040-F	1,200	13 – 16	12	7,200	38x37x22
SU8043-F	1,000	13 – 16	12	6,000	38x37x22
SU8058-F	800	13 – 16	12	4,800	38x37x22
SU1028-F	1,000	13 – 24	16	4,000	38x37x22
SU1030-F	1,200	13 – 24	16	4,800	38x37x22
SU1038-F	800	13 – 24	16	3,200	38x37x22
SU1040-F	800	13 – 24	16	3,200	38x37x22
SU1048-F	600	13 – 24	16	2,400	38x37x22
SU1065-F	500	13 – 24	16	2,000	38x37x22
DP2016-S	3,000	07 – 08	4	150,000	41x39x22
SH6022-L	500	07 – 16	12	15,000	42x41x24
SH6028-L	500	07 – 16	12	15,000	42x41x24
DH3016-F	1,000	07 – 12	8	40,000	42x41x24
DH3025-F	800	07 – 12	8	32,000	42x41x24
DH3040-F	500	07 – 12	8	20,000	42x41x24
DH6022-F	500	07 – 16	12	15,000	42x41x24
DH6038-F	1,000	13 – 16	12	6,000	38x37x22
SS1608-L	600	07 – 12	8	24,000	42x41x24
SS4530-L	600	07 – 12	8	24,000	42x41x24
SS0603-L	1,000	13 – 16	12	6,000	38x37x22
SS0604-L	1,000	13 – 16	12	6,000	38x37x22
SS0805-F	1,000	13 – 16	12	6,000	38x37x22
SS6028-L	400	07 – 16	12	12,000	42x41x24
SS6038-L	1,000	13 – 16	12	6,000	38x37x22
SS7032-L	1,500	13 – 16	12	9,000	38x37x22
SS7045-L	1,000	13 – 16	12	6,000	38x37x22
SS1003-L	1,000	13 – 24	16	4,000	38x37x22
SS1005-L	600	13 – 24	16	2,400	38x37x22
SS1806-L	250	13 – 32	20	1,000	38x37x22
SS1205-P	600	13 – 24	16	2,400	38x37x22
SS1206-P	600	13 – 24	16	2,400	38x37x22
SS1208-P	400	13 – 24	20	1,600	38x37x22
SS1240-L	800	13 – 24	16	3,200	38x37x22
SS1260-F	600	13 – 24	16	2,400	38x37x22
SS1280-F	400	13 – 24	20	1,600	38x37x22

Packaging Information For SMD Type

Series	Inner : Reel			Outer : Carton	
	Q'TY (pcs)	Style	P (m/m)	Q'TY (pcs)	Size (cm)
SS1258-F	600	13 – 24	16	2,400	38x37x22
SS1278-F	400	13 – 24	20	1,600	38x37x22
SS1210-F	250	13 – 24	20	1,000	38x37x22
BS0703-F	1,500	13 – 16	12	9,000	38x37x22
BS0704-F	1,000	13 – 16	12	6,000	38x37x22
BS0906-L	400	13 – 24	20	1,600	38x37x22
CS0703-L	1,500	13 – 16	12	9,000	38x37x22
CS0704-L	1,000	13 – 16	12	9,000	38x37x22
CS1205-L	800	13 – 24	16	3,200	38x37x22
CS1206-L	600	13 – 24	16	2,400	38x37x22
CS1208-L	400	13 – 24	20	1,600	38x37x22
CS1240-L	800	13 – 24	16	3,200	38x37x22
CS1260-L	600	13 – 24	16	2,400	38x37x22
CS1280-L	400	13 – 24	20	1,600	38x37x22
CU8030-L	400	07 – 16	16	12,000	42x41x24
CU8043-L	1,000	13 – 16	12	6,000	38x37x22
CU1038-L	800	13 – 24	16	3,200	38x37x22
CU1048-L	700	13 – 24	16	2,800	38x37x22
CU1206-L	600	13 – 24	16	2,400	38x37x22
HC0312-S	4,500	13 – 12	8	2,700	36x36x20
HC0412-S	4,500	13 – 12	8	2,700	36x36x20
HC0512-S	4,500	13 – 12	8	2,700	36x36x20
HC0612-S	3,000	13 – 12	12	1,800	36x36x20
HP0603-P	1,500	13 – 16	12	9,000	38x37x22
HP0603-2	1,500	13 – 16	12	9,000	38x37x22
HP0604-L	1,200	13 – 16	12	7,200	38x37x22
HP1004-P	900	13 – 24	16	3,600	38x37x22
HP1004-L	900	13 – 24	16	3,600	38x37x22
HP1004-2	900	13 – 24	16	3,600	38x37x22
CIP0520 HI	2,000	13 – 12	8	40,000	38.5x37x42
CIP0520 LR	2,000	13 – 12	8	40,000	38.5x37x42
CIP0530 HI	2,000	13 - 12	8	40,000	38.5x37x42
CIP0530 LR	2,000	14 – 12	8	40,000	38.5x37x42
CIP0630 HI	1,500	13 – 16	12	24,000	38.5x37x42
CIP0630 LR	1,500	13 – 16	12	24,000	38.5x37x42
CS3012-S	3,000	13 – 12	8	24,000	38x37x22
CS3015-S	3,000	13 – 12	8	24,000	38x37x22
BF0703-L	1,500	13 – 16	12	9,000	38x37x22
BF0704-L	1,000	13 – 16	12	6,000	38x37x22
SF1258-L	400	13 – 24	16	1,600	38x37x22
SF1278-L	400	13 – 24	20	1,600	38x37x22

Packaging Information For SMD Type

Series	Inner : Reel			Outer : Carton	
	Q'TY (pcs)	Style	P (m/m)	Q'TY (pcs)	Size (cm)
QS3818-L	1,000	07 – 12	8	40,000	42x41x24
QS3828-L	500	07 – 12	8	20,000	42x41x24
QS4818-L	800	07 – 12	8	32,000	42x41x24
QS4828-L	500	07 – 12	8	20,000	42x41x24
QS5818-L	500	07 – 16	12	15,000	42x41x24
QS5828-L	400	07 – 16	12	12,000	42x41x24
QS6828-L	1,500	13 – 16	12	9,000	38x37x22
SF1206-L	400	13 – 24	20	1,600	38x37x22
SF1407-L	400	13 – 24	20	1,600	38x37x22
CF0904-L	1,800	13 – 16	8	10,800	38x37x22
SF0904-P	1,500	13 – 16	8	9,000	38x37x22
SF0903-2	1,500	13 – 16	12	9,000	38x37x22
SF4532-F	500	07 – 12	8	20,000	41x39x22
SF0502-L	3,000	13 – 12	8	24,000	38x37x22
SF0503-L	500	07 – 16	8	15,000	42x41x24
SF0504-L	1,000	13 – 16	12	6,000	38x37x22
SF0602-L	1,000	07 – 12	8	40,000	42x41x24
SF0905-L	1,000	13 – 16	12	6,000	38x37x22
SF1065-L	800	13 – 24	12	3,200	38x37x22
SF1355-S	600	13 – 24	16	2,400	38x37x22
HDC0504 ST	3,000	07 – 08	4	60,000	38.5x19.5x14.5
PWC0603 ST	2,000	07 – 08	4	40,000	38.5x19.5x14.5
PWC0805 HT	2,000	07 – 08	4	40,000	38.5x19.5x14.5
PWC0805 ST	2,000	07 – 08	4	40,000	38.5x19.5x14.5
PWC1206 ST	2,000	07 – 08	4	40,000	38.5x19.5x14.5
TP0702-S	1,000	13 – 16	8	6,000	38x37x22



Quality Policy

We insist on the spirit of service, innovation and seeking for excellent.

Through the participation of everybody...

“I am doing the excellent all the time”

To contribute customers with satisfactory Quality Product,

Quick Delivery and Best Price.

品質政策

我們秉持服務、創新、追求卓越的精神，透過

“凡經我手最美、最好”

的全員參與，提供品質、交期與價格符合客戶要求的產品。



千如電子集團
ABC ELECTRONICS CORP.

