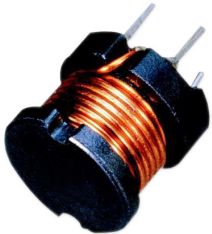


Inductor

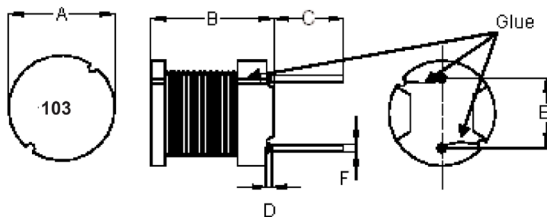
Radial Leaded

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RoHS
Compliant



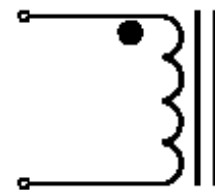
Configurations and Dimensions



Top View Front View Bottom View

Note : White dot of marking indicates the start terminal of winding

Schematic Diagram



Note:

1. Wire UEFN/U (155°C) Ø0.1mm
2. 556.5TS (Reference) C.W

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm
Specification	7.8 ±0.5	9.5 ±0.5	5 ±1	3 (Max.)	5 ±0.5	Ø0.7 (Ref.)
1	7.8	9.43	4.79	1.54	5.01	0.66
2	7.84	9.5	4.76	1.52	5.31	0.65
3	7.77	9.58	4.78	1.51	5.29	0.67
4	7.75	9.51	4.7	1.56	5.31	0.66
5	7.81	9.52	4.72	1.52	5.28	0.65
Average	7.79	9.51	4.75	1.53	5.24	0.66

Electrical Characteristics

Test Condition		
1kHz 0.25V	L	10mH ±10%
T _A = 25°C	DCR	24Ω (Max.)
1kHz 0.25V I _{rms} = 0.14A	ΔT	Temperature rise 40°C (Max.)

Operating temperature : -55°C to +130°C

Material List

No.	Item	Material Description
1	Core	DL5 DRWW7.8 × 9.5 RSN B:3.6 P:5 F:5
2	Wire	Ø0.1mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

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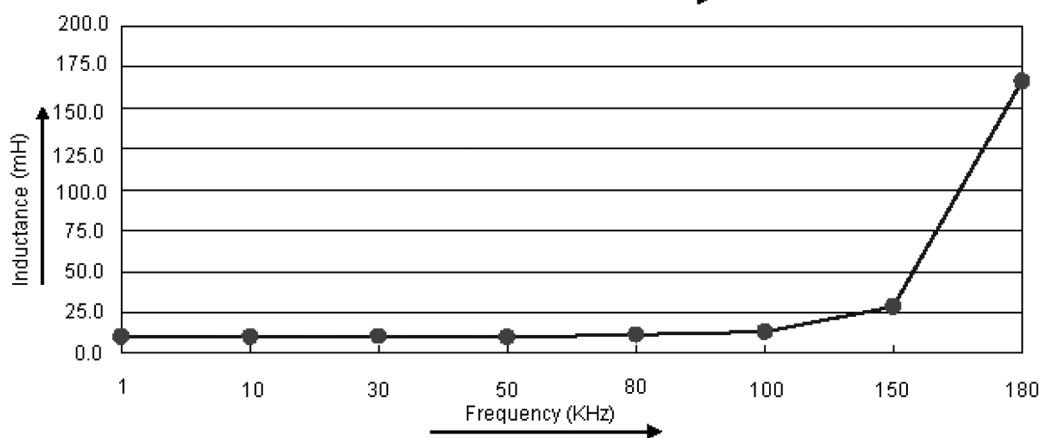
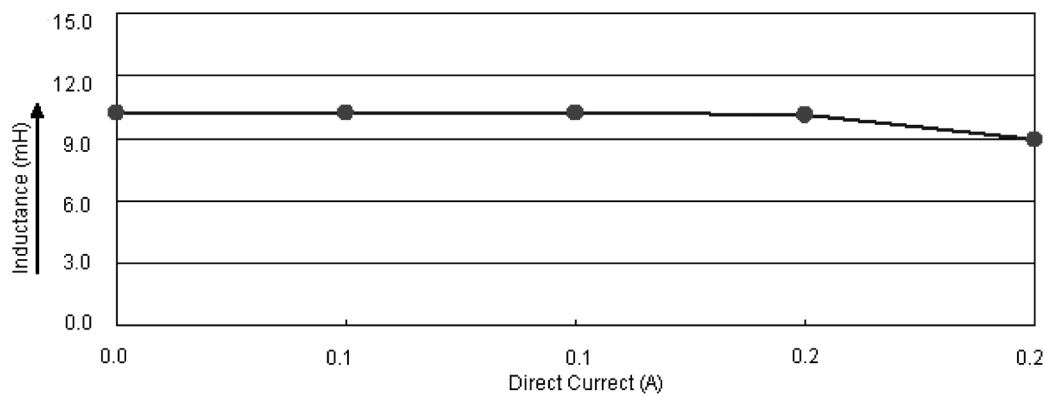
Inductor

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Reliability Test

Test Item	Specifications	Test Method and Remarks
Operating temperature range	-55°C to +130°C	Including temperature rise due to self-generated heat.
Storage condition	Ambient temperature : 0°C to 40°C Humidity : Below 70% RH	To maintain the solderability of terminal electrodes, care must be taken to control temperature and humidity in the storage area.
Moisture sensitivity	Appearance : No abnormality No damage DCR change : Within ±5% Inductance change : Within ±5%	According to J-STD-020B level 3 Test condition : 60°C 60% RH Test duration : 40 hrs Recovery : 1 to 2 hours of recovery under the standard condition after the removal from the test chamber.
Solderability	All termination shall exhibit a continuous solder coating free from defects for a minimum of 95% of the surface area of any individual lead.	According to J-STD-002B Steam aging category : 97°C 98% RH Steam aging duration : 8 hrs Solder : Lead-free solder Solder temperature : 260 ±5°C Dip time : 5 +0 / -0.5s

Electric Characteristics



Inductor

Radial Leaded

Test Data for Electrical

Test Item	L μH	DCR Ω	ΔT
Condition	1kHz 0.25V	at 25°C	1kHz 0.25V I _{rms} = 0.14A
Specification	10 ±10%	24 (Max.)	Temperature rise 40°C (Max.)
1	10.22	20.83	OK
2	10.24	20.515	
3	10.245	20.32	
4	10.183	20.94	
5	10.213	20.298	
Average	10.22	20.58	OK

Part Number Table

Description	Part Number
Inductor, 10mH, 10%, Radial Leaded	MCSCH895-103KU

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