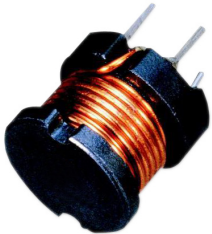


Inductor

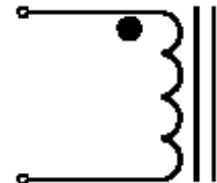
Radial Leaded

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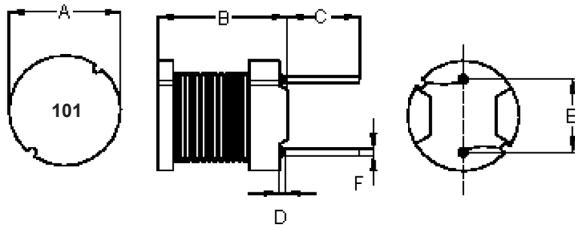
**RoHS
Compliant**



Schematic Diagram



Configurations and Dimensions



A	7.8 ±0.5mm	-
B	9.5 ±0.5mm	-
C	5 ±1mm	-
D	3mm	(Max.)
E	5 ±0.5mm	-
F	Ø0.6mm	(Ref.)

Note:

1. Wire UEFN/U (155°C) Ø0.35mm
2. 57.5TS (Reference) C.W

Top View **Front View** **Bottom View**

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

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	Ø0.6 (Ref.)
1	7.79	9.35	5.32	1.32	5.07	0.65
2	7.75	9.33	5.2	1.42	4.98	0.67
3	7.78	9.32	5.3	1.3	4.95	0.68
4	7.79	9.35	5.2	1.35	5.08	0.66
5		9.38	5.11	1.45	5.04	0.68
Average	7.78	9.35	5.23	1.37	5.02	0.67

Electrical Characteristics

Test Condition		
1kHz 0.25V	L	100µH ±10%
T _A = 25°C	DCR	190mΩ (Max.)
1kHz 0.25V I _{rms} = 0.9A	ΔT	Temperature rise 40°C (Max.)

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

Material List

No.	Item	Material Description
1	Core	F4F DR2W7.8 × 9.5 (SW) RCH B3.6 F5.4 P5
2	Wire	Ø0.35mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

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Element14.com/multicomp-pro

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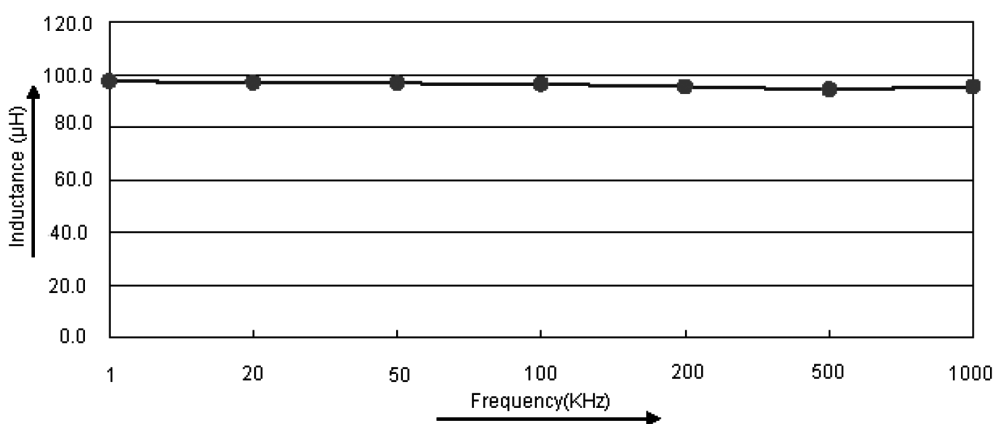
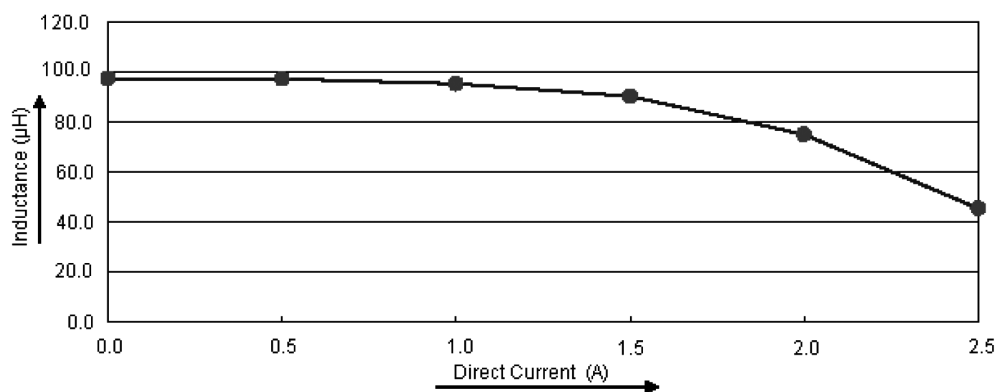
Inductor

Radial Leaded

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 mΩ	ΔT
Condition	1kHz 0.25V	at 25°C	1kHz 0.25V I _{rms} = 9A
Specification	100 ±10%	190 (Max.)	Temperature rise 40°C (Max.)
1	96.98	179.83	OK
2	97.18	179.52	
3	97.04	180.26	
4	97.48	179.27	
5	97.24	181.22	
Average	97.18	180.02	OK

Part Number Table

Description	Part Number
Inductor, 100μH, 10%, Radial Leaded	MCSCH895-101KU

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