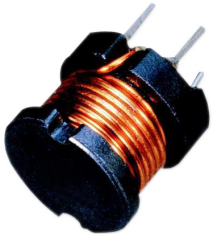


Inductor

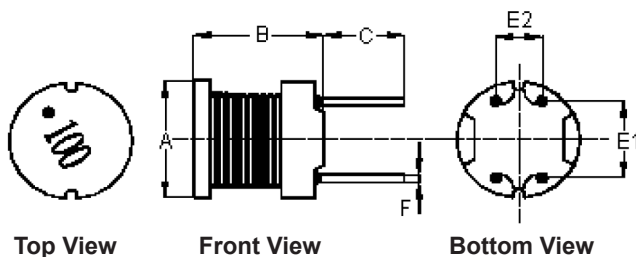
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**RoHS
Compliant**

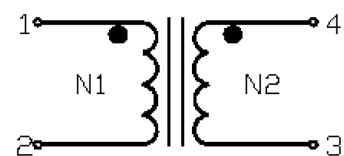


Configurations and Dimensions



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

Schematic Diagram



Note:

1. Wire UEFN/U (155°C) Ø0.5mm × 2
2. N1 = N2 = 14.5TS (Reference) C.W

Test Data for Mechanical

Test Item	A mm	B mm	C mm	E1 mm	E2 mm	F mm
Specification	10 ±0.5	10 ±0.5	3.5 ±0.5	5 ±0.5	4 ±0.5	Ø0.7 (Ref.)
1	10.2	9.82	3.69	5.12	3.98	0.68
2	10.26	9.85	3.49	4.92	4.14	0.67
3	10.19	9.87	3.42	5.17	4.18	0.68
4	10.21	9.91	3.77	5.01	4.08	0.68
5	10.2	9.81	3.65	4.98	3.91	0.67
Average	10.21	9.85	3.6	5.04	4.06	0.68

Electrical Characteristics

Test Condition		
1kHz 0.25V	L	10µH ±20%
T _A = 25°C	DCR	22mΩ (Max.)
10kHz 0.1V Irms = 5.3A	ΔT	Temperature rise 40°C (Max.)

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

Material List

No.	Item	Material Description
1	Core	P3B DRWW7.8 × 9.3RFB B3.5 F5 P5
2	Wire	Ø0.5mm × 2 UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

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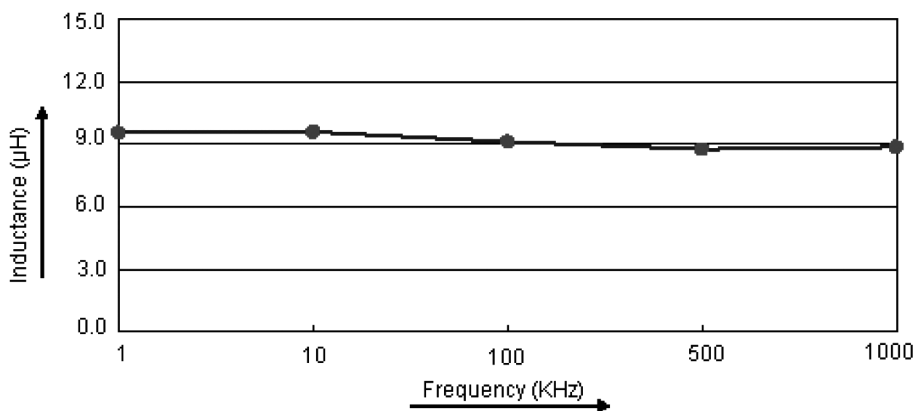
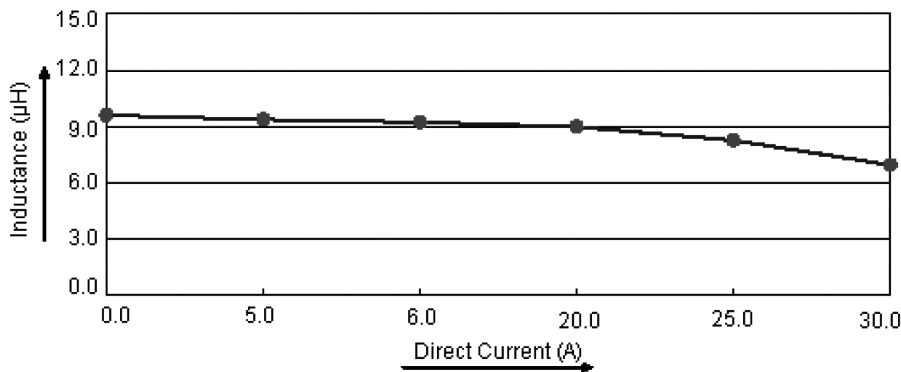
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Reliability Test

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



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Test Data for Electrical

Test Item	L μH	DCR mΩ	ΔT
Condition	1kHz / 0.1V	at 25°C	10kHz 0.1V I _{rms} = 5.3A
Specification	10 ±20%	22 (Max.)	Temperature rise 40°C (Max.)
1	9.58	13.96	OK
2	9.55	14.42	
3	9.57	14.44	
4	9.62	14.11	
5	9.56	14.21	
Average	9.58	14.23	OK

Part Number Table

Description	Part Number
Inductor, 10μH, 20%, Radial Leaded	MCSCH110-100MU

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