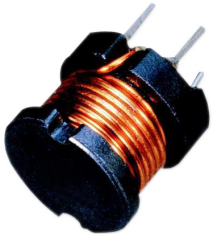


Inductor

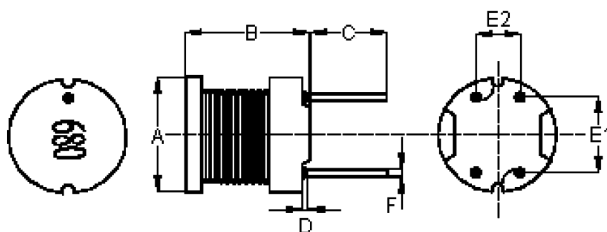
Radial Leaded

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**RoHS
Compliant**



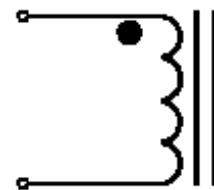
Configurations and Dimensions



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) Ø0.45mm × 2
2. 38.5TS (Reference) C.W

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E1 mm	E2 mm	F mm
Specification	10.5 (Max.)	10.5 (Max.)	3.5 ±0.5	3 (Max.)	5 ±0.5	4 ±0.5	Ø0.7 (Ref.)
1	10.17	9.36	3.43	0.92	5.07	4.03	0.63
2	10.1	9.34	3.45	0.98	5.05	3.95	0.64
3	10.27	9.38	3.43	1.23	5.06	3.98	0.67
4	10.2	9.38	3.52	1.15	5.08	4.05	0.66
5	10.19	9.34	3.54	0.98	5.07	4.07	0.64
Average	10.19	9.36	3.47	1.05	5.07	4.02	0.65

Electrical Characteristics

Test Condition		
1kHz 0.25V	L	1µH ±20%
T _A = 25°C	DCR	6mΩ (Max.)
1kHz 0.25V I _{rms} = 2.1A	ΔT	Temperature rise 40°C (Max.)

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

Material List

No.	Item	Material Description
1	Core	DL5 DR4W 10 × 10 RSN B4.5 F5
2	Wire	Ø0.45mm × 2 UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

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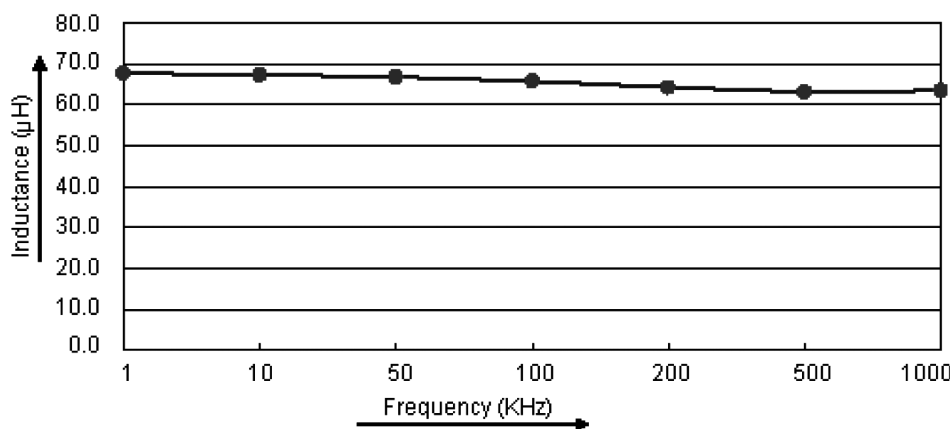
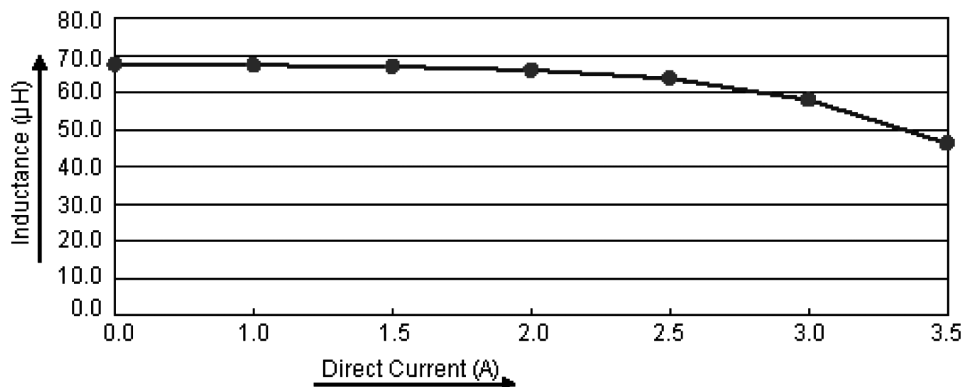
Inductor

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 Ω	ΔT
Condition	1kHz 0.25V	at 25°C	1kHz 0.25V I _{rms} = 2.1A
Specification	68 ±10%	0.12 (Max.)	Temperature rise 40°C (Max.)
1	67.32	0.09	OK
2	67.34	0.089	
3	68.26	0.089	
4	67.98	0.091	
5	67.5	0.09	
Average	67.68	0.09	OK

Part Number Table

Description	Part Number
Inductor, 68μH, 10%, Radial Leaded	MCSCH110-680KU

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