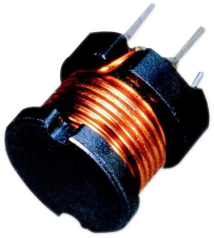
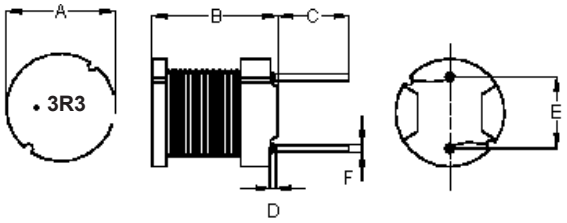
Inductor
Radial Leaded

multicomp PRO

RoHS Compliant



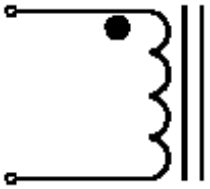
Configurations and Dimensions



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) Ø0.65mm
2. 10.5TS (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	Ø0.6 (Ref.)
1	7.87	9.39	4.94	1.2	4.94	0.61
2	7.84	9.41	5.02	1.34	4.87	0.62
3		9.37	5.11	1.47	4.97	0.63
4	7.86	9.32	5.2	1.39	4.92	0.62
5	7.84	9.38	5.18	1.21	4.88	0.61
Average	**7.85**	**9.37**	**5.09**	**1.32**	**4.92**	**0.62**

Electrical Characteristics

Test Condition		
1kHz 0.25V	L	3.3μH ±20%
T_A = 25°C	DCR	13mΩ (Max)
1kHz 0.25 V Irms = 6.3A	ΔT	Temperature rise 40°C (Max.)

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

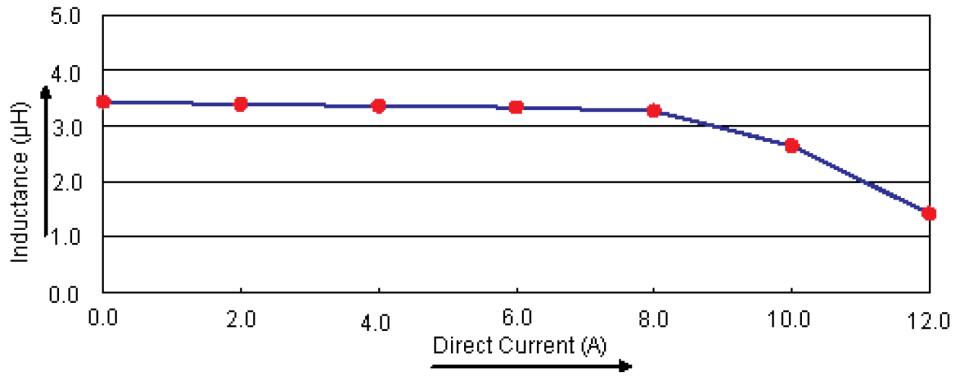
Material List

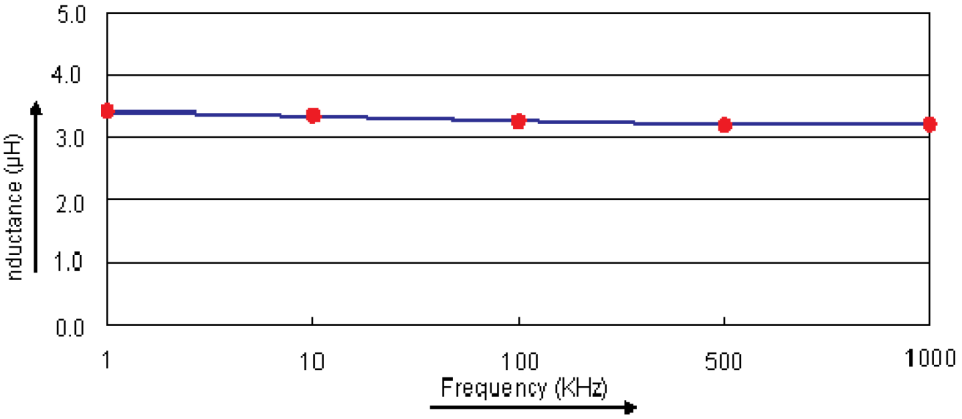
No.	Item	Material Description
1	Core	P3D DRWW7.8 × 9.3RFB B3.5 F5 P5
2	Wire	Ø0.65mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

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





Test Data for Electrical

Test Item	L µH	DCR Ω	ΔT
Condition	1kHz 0.25V	at 25°C	1kHz 0.25V Irms = 6.3A
Specification	3.3 ±20%	13 (Max.)	Temperature rise 40°C (Max.)
1	3.72	9.14	OK
2	3.74	9.04	
3	3.75	9.05	
4	3.72	9.07	
5	3.74	9.1	
Average	**3.73**	**9.08**	**OK**

Part Number Table

Description	Part Number
Inductor, 3.3µH, 20%, Radial Leaded	MCSCH895-3R3MU