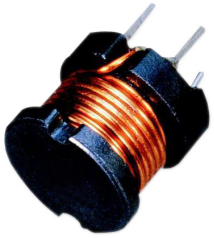
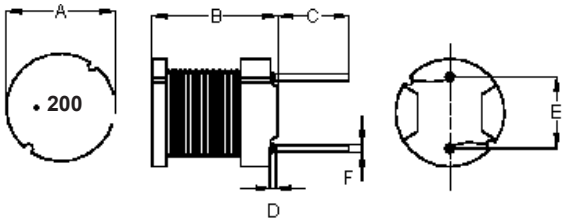
Inductor
Radial Leaded

multicomp PRO

RoHS Compliant



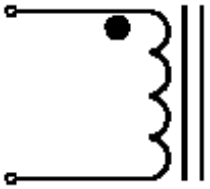
Configurations and Dimensions



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) Ø0.5mm
2. 25.5TS (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	2 (Max.)	5 ±0.5	Ø0.7 (Ref.)
1	7.77	9.25	5.31	1.2	5.21	0.67
2	7.78	9.25	5.27	1.34	5.17	0.68
3	7.77	9.27	5.38	1.47	5.11	0.67
4	7.79	9.3	5.26	1.39	5.2	0.69
5	7.8	9.29	5.17	1.21	5.21	0.7
Average	**7.78**	**9.27**	**5.28**	**1.32**	**5.18**	**0.68**

Electrical Characteristics

Test Condition		
1kHz 0.25V	L	20μH ±10%
T_A = 25°C	DCR	50mΩ (Max)
1kHz 0.25 V Irms = 2.2A	ΔT	Temperature rise 40°C (Max.)

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

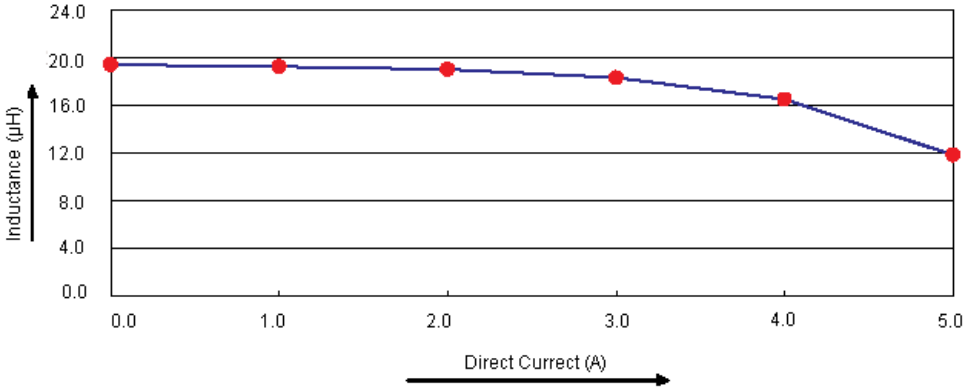
Material List

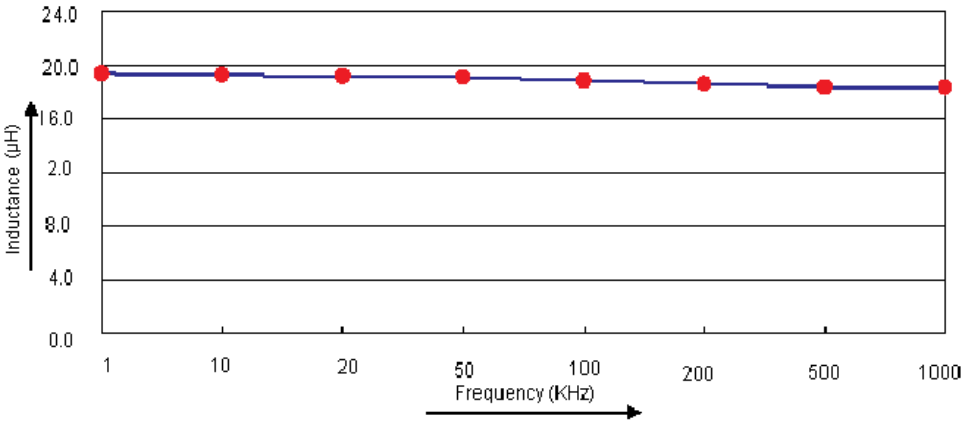
No.	Item	Material Description
1	Core	F4F DR2W7.8 × 9.5 (SW) RCH B3.6 F5.4 P5
2	Wire	Ø0.5mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

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 = 2.2A
Specification	20 ±10%	50 (Max.)	Temperature rise 40°C (Max.)
1	19.3	39.46	OK
2	19.52	39.18	
3	19.3	39.35	
4	19.42	39.01	
5	19.44	39.23	
Average	**19.4**	**39.25**	**OK**

Part Number Table

Description	Part Number
Inductor, 20µH, 10%, Radial Leaded	MCSCH895-200KU