

Inductor

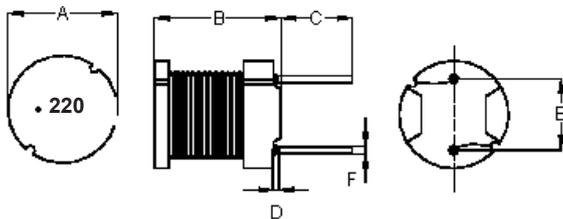
Radial Leaded

multicomp PRO

**RoHS
Compliant**



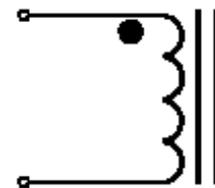
Configurations and Dimensions



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) Ø0.45mm
2. 26.5TS (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	7.83	9.41	5.07	1.52	4.92	0.68
2	7.88	9.44	5.12	1.53	4.95	0.67
3	7.85	9.45	5.15	1.22	4.92	0.66
4	7.82	9.44	5.08	1.12	4.98	0.67
5	7.83	9.53	5.09	1.23	5.01	0.68
Average	7.84	9.45	5.1	1.32	4.96	0.67

Electrical Characteristics

Test Condition		
1kHz 0.25V	L	22µH ±10%
T _A = 25°C	DCR	65mΩ (Max)
1kHz 0.25 V Irms = 2.3A	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 B4.0 F5.4 P5
2	Wire	Ø0.45mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

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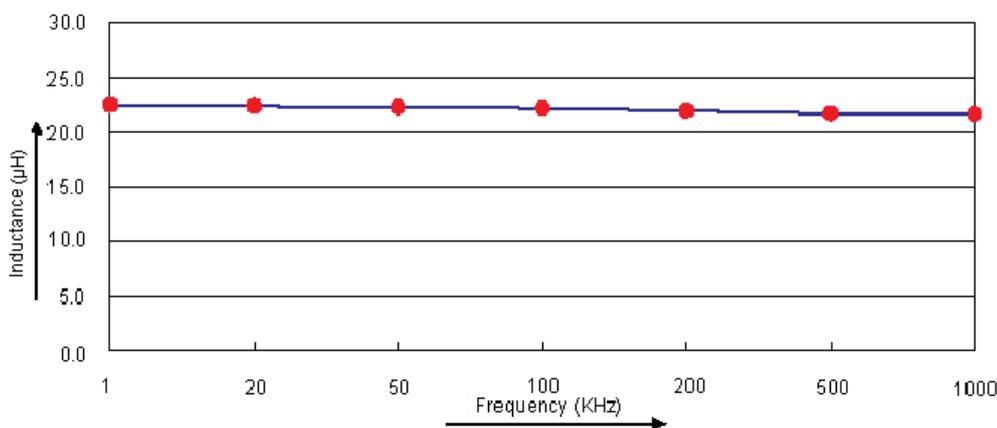
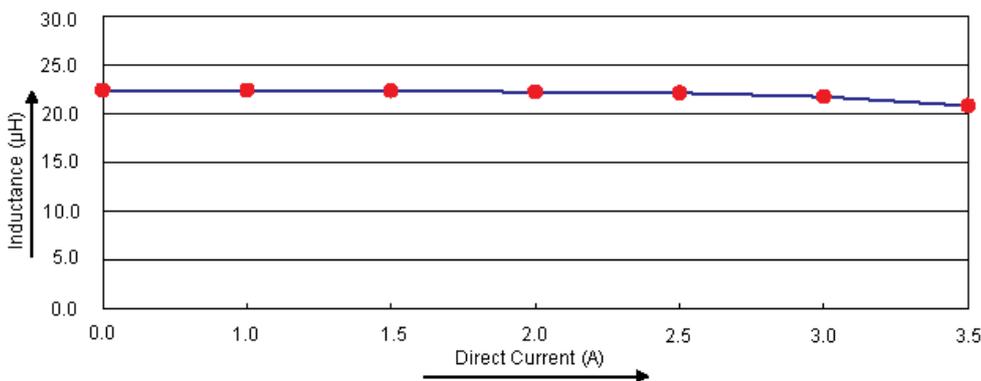
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Reliability Test

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 Ω	ΔT
Condition	1kHz 0.25V	at 25°C	1kHz 0.25V I _{rms} = 2.3A
Specification	22 ±10%	65 (Max.)	Temperature rise 40°C (Max.)
1	22.6	47.88	OK
2	22.46	47.49	
3	22.4	47.96	
4	22.38	48.03	
5	22.48	47.96	
Average	22.46	47.86	OK

Part Number Table

Description	Part Number
Inductor, 22μH, 10%, Radial Leaded	MCSCH895-220KU

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