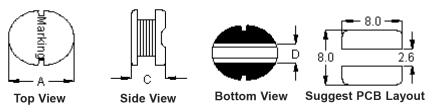
Inductor

multicomp PRO



RoHS Compliant

Configurations and Dimensions



Dimensions: Millimetres

Marking: 470

Test Data for Mechanical

Test Item	A mm	B mm	D mm
Specification	7.8 (Max.)	5.3 (Max.)	2.6 (Ref.)
1	7.5	5.01	2.52
2	7.52	5.03	2.49
3	7.48	5.04	2.43
4	7.5	5.05	2.55
5	7.49	5.03	2.47
Average	7.5	5.03	2.49

Electrical Characteristics

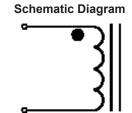
Test Condition		
1kHz 1V	L	220μH ±10%
at 25°C	DCR	0.96Ω (Max.)
1kHz 1V Isat = 1.6A	L at Isat	L drops 35% (Max.)
1kHz 1V Irms = 1A	ΔΤ	Temperature rise 40°C (Max.)

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

Material List

No.	Item	Material Description	
1	Core	R5A CDR7.5 × 5 (ST) B3.4 F2.5	
2	Wire	Ø0.18mm × 1P 2UEWF (155°C)	
3	Solder (Lead-free)	Sn99.3% / Cu0.7%	

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Note:

1. Wire Ø0.18mm × 1P 2UEWF 155°C

2. 75.5TS (Reference)



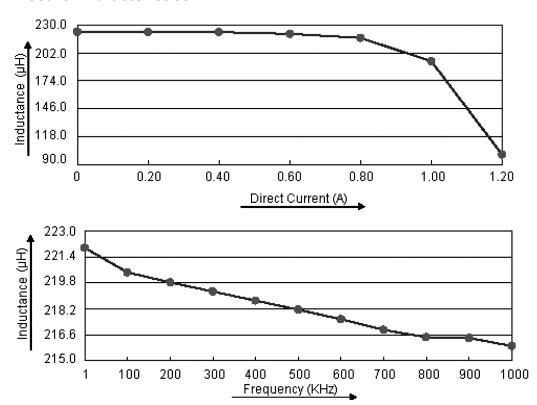
Inductor



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 Humidity	: 0°C to 40°C : 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 DCR change Inductance change	: No abnormality No damage : Within ±5% : Within ±5%	According to J-STD-02 Test condition Test duration Recovery	OB level 3 : 60°C 60% RH : 40 hrs : 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-00 Steam aging category Steam aging duration Solder Solder temperature Dip time	: 97°C 98% RH

Electric Characteristics



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Test Data for Electrical

Test Item	L µH	DCR Ω	L at Isat μΗ	ΔΤ	
Condition	1kHz 1V	at 25°C	1kHz 1V Isat = 0.8A	1kHz 1V Irms = 0.49A	
Specification	220 ±10%	0.96 (Max.)	L drops 35% (Max.)	Temperature rise 40°C (Max.)	
1	222.9	0.84	215.72		
2	221.95	0.04	213.64		
3	220.85	0.85	214.6	OK	
4	221.7	0.84	213.45		
5	220.45	0.86	214]	
Average	221.57	0.85	214.28	OK	

Part Number Table

Description	Part Number	
Inductor, 220µH, 10%, SMD	MCSDC0805-221KU	

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