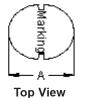
Inductor

RoHS

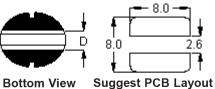
Compliant



Configurations and Dimensions







Note:

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	47µH ±10%
at 25°C	DCR	0.2Ω (Max.)
1kHz 1V Isat = 1.6A	L at Isat	L drops 35% (Max.)
1kHz 1V Irms = 1A	ΔΤ	Temperature rise 40°C (Max.)

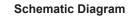
Operating temperature : -55°C to +130°C

Material List

No.	ltem	Material Description
1	Core	R5A CDR7.5 × 5 (ST) B3.4 F2.5
2	Wire	Ø0.27mm × 1P 2UEWF (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

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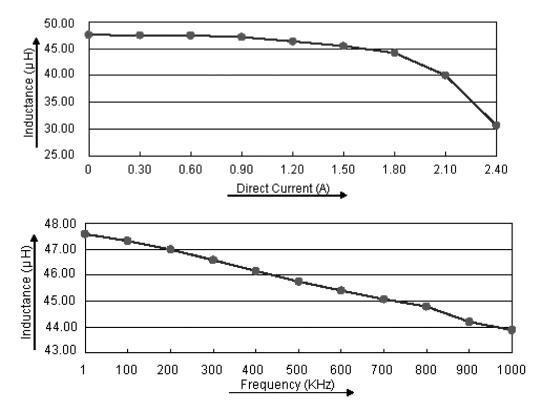
1. Wire Ø0.27mm × 1P 2UEWF 155°C

2. 35.5TS (Reference)

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°CHumidity: 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	 0B 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 = 1.6A	1kHz 1V Irms = 1A
Specification	47 ±10%	0.45 (Max.)	L drops 35% (Max.)	Temperature rise 40°C (Max.)
1	47.75	0.18	46.29	
2	47.58	0.17	46.27	
3	47.35	0.18	45.75	ОК
4	47.63	0.17	46.15	
5	47.5	0.17	46	
Average	47.56	0.17	46.09	OK

Part Number Table

Description	Part Number
Inductor, 47µH, 10%, SMD	MCSDC0805-470KU

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