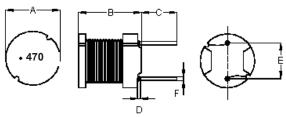
Inductor **Radial Leaded**

multicomp PRO



RoHS **Compliant**

Configurations and Dimensions



Α 7.8mm ±0.5mm В 9.5mm ±0.5mm С 5mm ±1mm D 3mm (Max.) Ε 5mm ±0.5mm Ø0.6mm (Ref.)

Schematic Diagram

1. Wire UEFN/U (155°C) Ø0.4mm

2. 38.5TS (Reference) C.W

Top View Front View Bottom View

Note: The dot of marking indicates the start terminal of winding

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	7.81	9.49	5.16	1.33	4.99	0.69
2	7.80	9.43	5.18	1.38	5.12	0.71
3	7.84	9.45	5.43	1.36	4.90	0.69
4	7.80	9.44	5.15	1.45	5.14	0.7
5	7.83	9.58	5.24	1.47	5.14	0.7
Average	7.82	9.48	5.23	1.4	5.06	0.7

Electrical Characteristics

Test Condition		
1kHz 0.25V	L	47μH ±20%
TA = 25°C	DCR	120mΩ (Max.)
1kHz 0.25 V Irms = 1.3A	ΔΤ	Temperature rise 40°C (Max.)

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

Material List

No.	Item	Material Description		
1	Core	F6D DR2W7.8*9.5(SW)RCH B3.75 F5.6 P5		
2	Wire	Ø0.4mm UEFN/U (155°C)		
3	Solder (Lead-free)	Sn99.3% / Cu0.7%		

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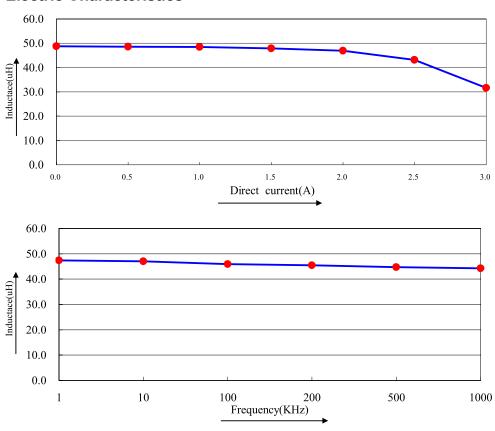
Inductor Radial Leaded



Reliability Test

Test Item	Specifications		Test Method and Remarks		
Operating temperature range	-55°C to +130°C		Including temperature r	rise due to self-generated heat.	
Storage condition	Ambient temperature Humidity	: 0°C to 40°C : Below 70% RH	l .	ability of terminal electrodes, care ol temperature and humidity in the	
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	ΔΤ
Condition	1kHz 0.25V	at 25°C	1kHz 0.25V Irms = 1.3A
Specification	47 ±20%	120 (Max.)	Temperature rise 40°C (Max.)
1	49.46	98.56	
2	49.52	99.26	
3	49.24	99.21	OK
4	49.16	98.87	
5	49.30	98.88	
Average	49.34	98.96	OK

Part Number Table

Description	Part Number	
Inductor, 47μH, 1.3A, 120mΩ DCR	MCSCH895-470KU	

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