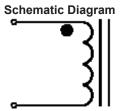
Inductor

multicomp PRO



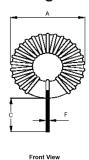
RoHS Compliant

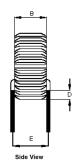


Note:

- 1. Wire UEFN/U (155°C) Ø0.3mm
- 2. 51TS (Reference) C.W

Configurations and Dimensions





Α	15mm (Max.)	
В	8mm (Max.)	
С	12 ±1mm	
D	1mm (Min.)	
Е	7 ±1mm	
F	Ø0.3mm (Ref.)	

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm
Specification	15 (Max.)	8 (Max.)	12 ±1	1 (Min.)	7 ±1	Ø0.3 (Ref.)
1	13.68	7.18	12.62	2.02	6.94	0.29
2	13.88	7.06	11.68	1.14	6.86	0.3
3	13.75	7.02	11.92	1.9	6.8	0.28
4	13.78	7.06	11.22	2.04	6.98	0.27
5	13.66	7.22	11.48	1.36	7.04	0.3
Average	13.75	7.11	11.78	1.69	6.92	0.29

Material List

No.	Item	Material Description		
1	Core	T50B-75-TAF200 (Red / White)		
2	Wire	Ø0.3mm UEFN/U (155°C)		
3	Solder (Lead-free)	Sn99.3% / Cu0.7%		

Electrical Characteristics

Test Condition		
10kHz / 5mA	L	109μH ±20%
T _A = 25°C	DCR	300mΩ (Max.)
10kHz / 5mA Irms = 0.5A	ΔΤ	Temperature rise 40°C (Max.)

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

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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	•		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	2B : 97°C 98% RH : 8 hrs : Lead-free solder : 260 ±5°C : 5 +0 / -0.5s	

Test Data for Electrical

Test Item	L µH	DCR mΩ	ΔΤ
Condition	10kHz / 5mA	T _A = 25°C	10kHz / 0.5mA Irms = 0.5A
Specification	109 ±20%	300 (Max.)	Temperature rise 40°C (Max.)
1	111	251	
2	117.8	245	
3	112.5	249.8	OK
4	115.4	250.3	
5	116.4	243.3	
Average	114.62	247.88	OK

Part Number Table

Description	Part Number	
Inductor, 100µH, 20%, 2 Pins	MCAP105228050A-101MU	

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