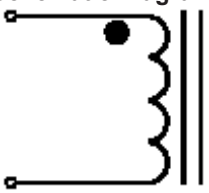
Inductor

multicomp PRO

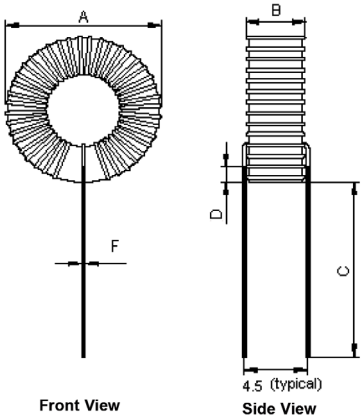
RoHS Compliant

Schematic Diagram



Note:
1. Wire UEFN/U (155°C) Ø0.6mm
2. 17TS (Reference) C.W

Configurations and Dimensions



A	12mm (Max.)
B	5.5mm (Max.)
C	15 ±2 mm
D	1mm (Min.)
F	Ø0.6 ±0.05mm

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	F mm
Specification	**12 (Max.)**	**5.5 (Max.)**	**15 ±2**	**1 (Min.)**	**Ø0.6 ±0.5**
1	11.11	4.68	15.34	1.98	0.59
2	11.12	4.72	14.9	1.97	0.6
3	11.15	4.68	15.2	1.96	0.59
4	11.13	4.69	15.24	1.95	0.6
5	11.14	4.71	15.31	1.99	
Average	**11.13**	**4.7**	**15.2**	**1.97**	**0.6**

Electrical Characteristics

Test Condition		
10kHz / 5V	L	8.2µH ±20%
T_A = 25°C	DCR	20mΩ (Max.)
10kHz / 5mA Irms = 2A	ΔT	Temperature rise 40°C (Max.)

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

Material List

No.	Item	Material Description
1	Core	T37-75-TAF200 (Red / White)
2	Wire	Ø0.6mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

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

Test Data for Electrical

Test Item	L µH	DCR mΩ	ΔT
Condition	10kHz / 5mA	T_A = 25°C	10kHz / 5mA Irms = 2A
Specification	8.2 ±20%	20 (Max.)	Temperature rise 40°C (Max.)
1	8.16	15.09	OK
2	8.26	15.11	
3	8.38	15.09	
4	8.58	14.96	
5	8.42	15.56	
Average	**8.36**	**15.16**	**OK**

Part Number Table

Description	Part Number
Inductor, 8.2µH, 20%, 2 Pins	MCAP103722016A-8R2MU