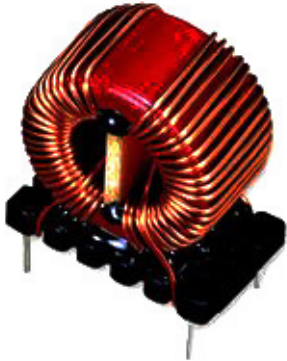


Choke Coil

multicomp PRO

**RoHS
Compliant**



Electrical Characteristics: (at 25°C)

Test Condition		
10kHz 0.25V	L	300μH ±20%
T _A = 25°C	DCR	170mΩ (Max.)
10kHz 0.25V I _{RMS} = 6A	ΔT	Temperature rise 40°C (Max.)
Operating temperature		-55°C to +130°C

Material List:

No.	Item	Material Description
1	Core	T90-75-TAF200 (Red / White)
2	Wire	Φ0.8mm UEFN/U (155°C)
3	Solder(Lead Free)	Sn99.3% / Cu0.7%
4	Base	BS1009
5	Glue	TH100A / TH100B

Reliability Test:

Test Items	Specifications	Test Method and Remarks
Operating temperature range	-55°C to +130°C	Including temperature rise due to self generated heat
Storage Condition	Ambient Temp. : 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 : 40hrs Recovery : 1 to 2hrs 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 : 8hrs Solder : Lead-free solder Solder temperature : 260 ±5°C Dip time : 5 +0/-0.5 seconds

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Choke Coil

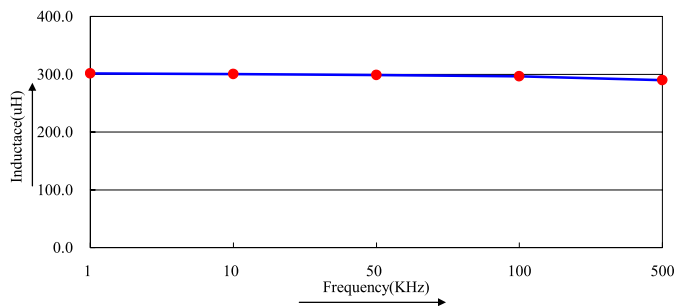
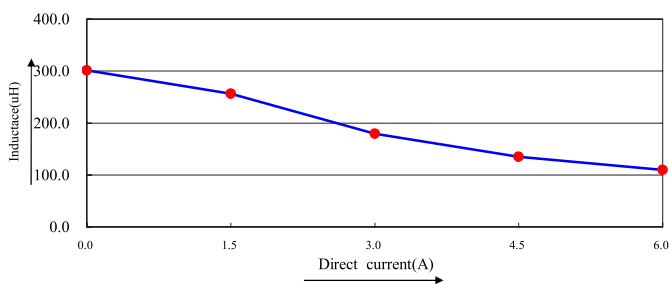
Test Data for Mechanical:

Test Item	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
Spec	35 (Max.)	10 ±0.3	28 (Max.)	12 ±0.3	17 ±0.5	1 (Typ)	2.5 ±0.5
1	30.69	10.05	25.81	12.05	17.03	1.02	2.41
2	31.01	10.07	25.78	12.02	17.11	1.08	2.32
3	31.22	9.98	25.95	12.04	17.10	0.97	2.86
4	31.47	10.02	25.88	11.94	17.07	1.04	2.65
5	30.67	10.04	25.92	12.01	17.05	1.07	2.51
Average	31.01	10.03	25.87	12.01	17.07	1.04	2.55

Test Data for Electrical:

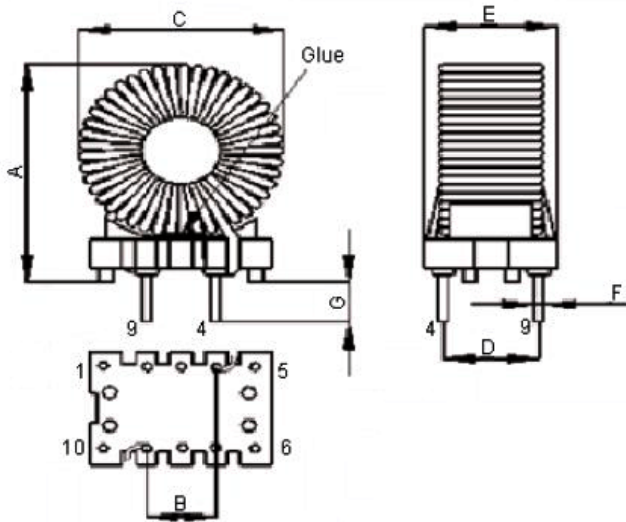
Test Item	L μH	DCR mΩ	ΔT
Condition	10kHz 0.25V	T _A = 25°C	10kHz 0.25V I _{RMS} = 6A
Spec	300 ±20%	170 (Max.)	Temperature rise 40°C (Max.)
1	306.71	75.46	OK
2	300.66	75.26	
3	299.7	75.05	
4	297.05	76.41	
5	296.57	75.61	
Average	300.14	75.56	OK

Electrical Characteristics:



Choke Coil

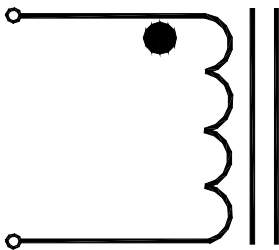
Configurations & Dimensions:



A	35mm (Max.)
B	10 ±0.3mm
C	28mm (Max.)
D	12 ±0.3mm
E	17 ±0.5mm
F	1mm (Typ)
G	2.5 ±0.5mm

Note : Pull out of the PIN 1, 2, 3, 5, 6, 7, 8, 10

Schematic Diagram:



Note: 1. Wire UEFN/U (155°C) Φ 0.8mm
2. 67TS(Ref) C.W

Part Number Table

Description	Part Number
Choke Coil, 300 μ H, 20%	MCAPB109020067A-301MU

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