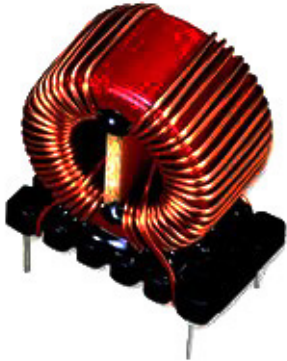


Choke Coil

**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

Choke Coil



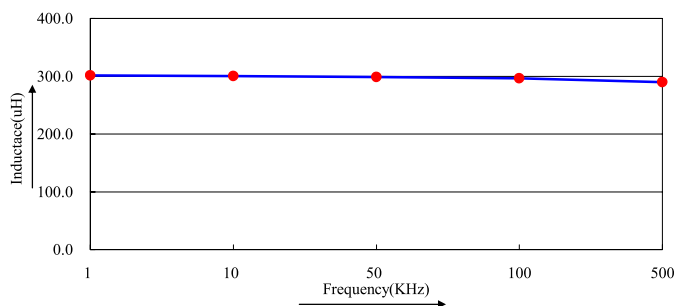
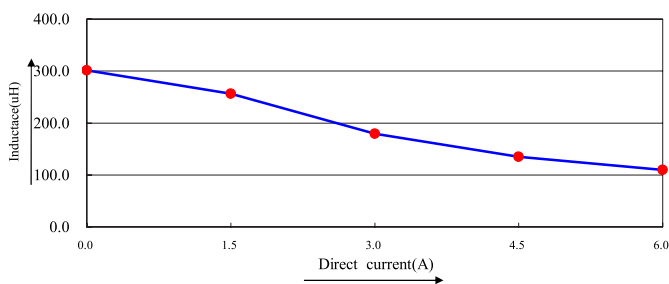
Test Data for Mechanical:

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

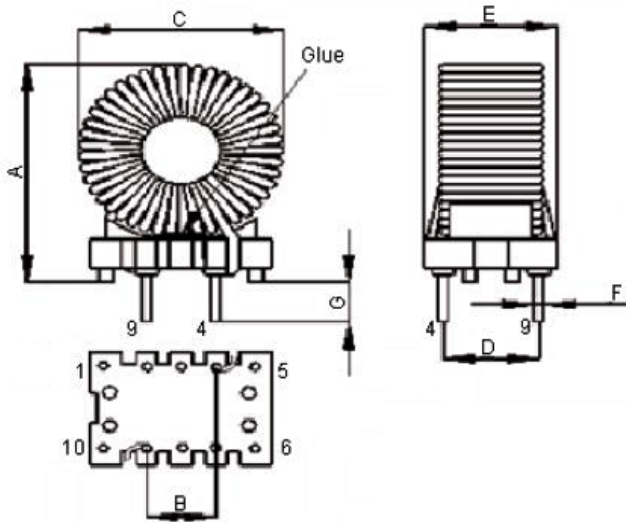
Electrical Characteristics:



Choke Coil



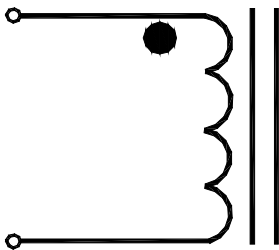
Configurations & Dimensions:



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) Φ0.8mm
2. 67TS(Ref) C.W

Part Number Table

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

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.

