



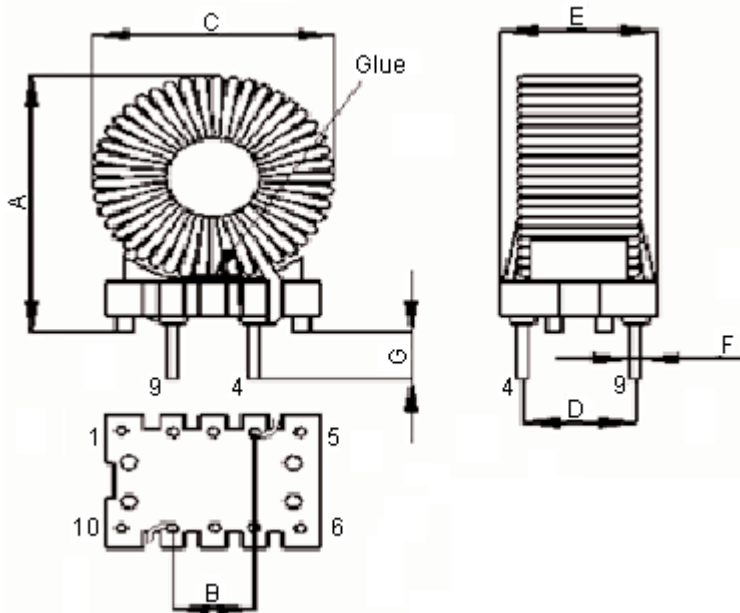
PART NO.

MCAPB109020067A-301MU

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Veena	07/2/11	Jagan	07/2/11	Farnell	21/2/11

Configurations and Dimensions



A	35.0 mm	(Maximum)
B	10.0 ±0.3 mm	-
C	28.0 mm	(Maximum)
D	12.0 ±0.3 mm	-
E	17.0 ±0.5 mm	-
F	Ø1.0 mm	(Typical)
G	2.5 ±0.5 mm	-



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

Electrical Characteristics

Test Condition		
10KHz/0.25V	L	300.0µH ±20%
T <sub>a</sub> = 25°C	DCR	170.0mΩ (Maximum)
10KHz/0.25V I <sub>rms</sub> = 6.0A	ΔT	Temperature Rise 40°C (Maximum)

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

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Jagan	07/02/11
APPROVED BY:	DATE:
Farnell	21/02/11

DRAWING TITLE:

Inductor Toroidal

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10002592	APB109020067A-301MU	A
SCALE: NTS	U.O.M.: mm	SHEET: 1 OF 5	



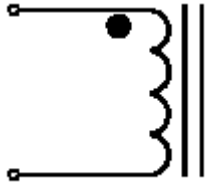
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Schematic Diagram



Note:

- (1) Wire UEFN/U (155°C) Ø0.80mm.
- (2) 67TS (Reference) C.W

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm	G
Specification	35.0 (Maximum)	10.0 ±0.3	28.0 (Maximum)	12.0 ±0.3	17.0 ±0.5	Ø1.0 (Typical)	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
<b>Average</b>	<b>31.01</b>	<b>10.03</b>	<b>25.87</b>	<b>12.01</b>	<b>17.07</b>	<b>1.04</b>	<b>2.55</b>

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Inductor Toroidal			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10002592	APB109020067A-301MU	A
SCALE: NTS		U.O.M.: mm	SHEET: 2 OF 5



PART NO.

MCAPB109020067A-301MU

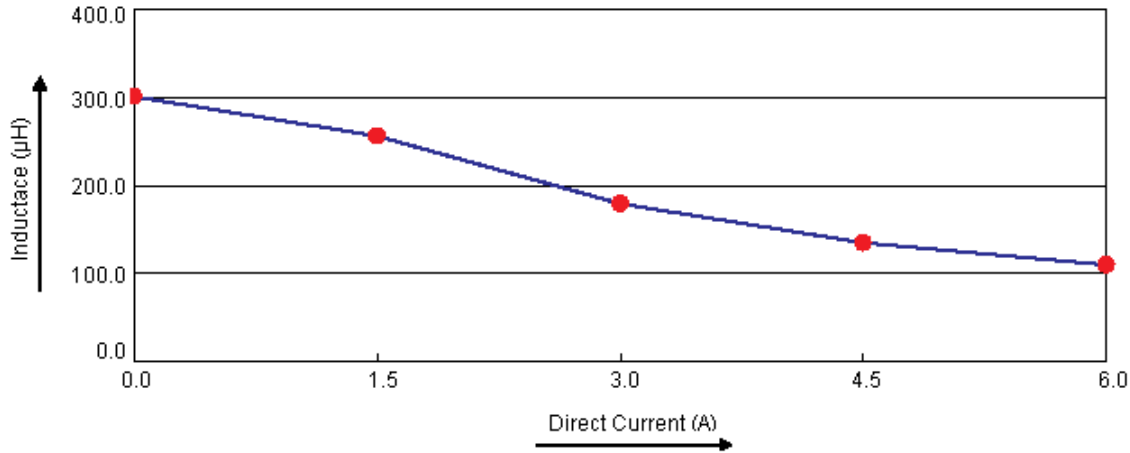
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Test Data for Electrical

Test Item	L μH	DCR mΩ	ΔT
Condition	10KHz/0.2 5V	T <sub>a</sub> = 25°C	10KHz/0.25V I <sub>rms</sub> = 6.0A
Specification	300.0 ±20%	170.0 (Maximum)	Temperature Rise 40°C (Maximum)
1	306.71	75.46	OK
2	300.66	75.26	
3	299.70	75.05	
4	297.05	76.41	
5	296.57	75.61	
Average	300.14	75.56	OK

Electric Characteristics



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SCALE: NTS	U.O.M.: mm	SHEET: 3 OF 5	



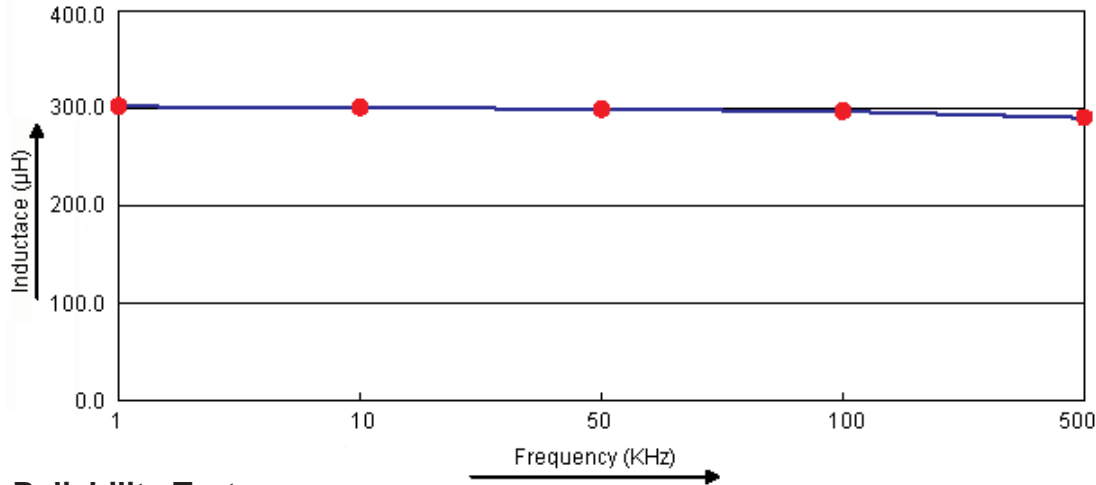
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Electric Characteristics



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 hours 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 hours Solder : Lead-free solder Solder temperature : 260°C ±5°C Dip time : 5 +0/-0.5 seconds.

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A	M10002592	APB109020067A-301MU		A	
SCALE: NTS		U.O.M.: mm		SHEET: 4 OF 5	



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Material List

No.	Item	Material Description
1	Core	T90-75-TAF200 (Red/White)
2	Wire	Ø0.80mm UEFN/U (155°C)
3	Solder (Lead Free)	Sn99.3%/Cu0.7%
4	Base	BS1009
5	Glue	TH100A/TH100B

Part Number Table

Description	Part Number
Inductor, Toroidal, 300UH, 20%	MCAPB109020067A-301MU

<http://www.farnell.com>

<http://www.newark.com>

<http://www.cpc.co.uk>

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Inductor Toroidal			
SIZE A	DWG NO. M10002592	ELECTRONIC FILE APB109020067A-301MU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 5 OF 5	