



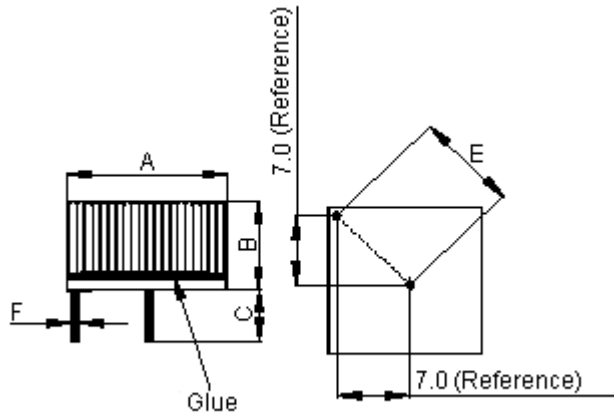
PART NO.

MCAPB106424076B-561MU

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	VEE	20/4/11	SAN	20/4/11		04/5/11

Configurations and Dimensions



Front View

Bottom View

Dimensions : Millimetres

A	18.5 mm	(Max.)
B	17 mm	(Max.)
C	5.5 ±0.5 mm	-
E	10 ±0.5 mm	-
F	∅0.5 mm	(Ref.)

Schematic Diagram



Note:

1. Wire UEFN/U (155°C) ∅0.5mm
2. 76TS (Reference) C.W



Electrical Characteristics

Test Condition		
10 KHz / 0.25 V	L	560 µH ±20%
T <sub>a</sub> = 25°C	DCR	0.35 Ω (Max.)
10 KHz / 0.25 V I <sub>rms</sub> = 1 A	ΔT	Temperature rise 40°C (Max.)

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

Test Data for Mechanical

Test Item	A mm	B mm	C mm	E mm	F mm
Specification	18.5 (Max.)	17 (Max.)	5.5 ±0.5	10 ±0.5	∅0.5 (Ref.)
1	17.46	16.38	5.67	9.87	0.49
2	17.43	16.04	5.62	9.94	0.47
3	17.37	16.32	5.63	9.9	0.48
4	17.46	16.21	5.71	10.06	0.49
5	17.73	16.24	5.66	9.95	0.5
<b>Average</b>	<b>17.49</b>	<b>16.24</b>	<b>5.66</b>	<b>9.94</b>	<b>0.49</b>

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DRAWING TITLE:

Inductor Toroidal

SIZE A DWG NO.

M10002594

ELECTRONIC FILE  
MCAPB106424076B-561MU

REV  
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



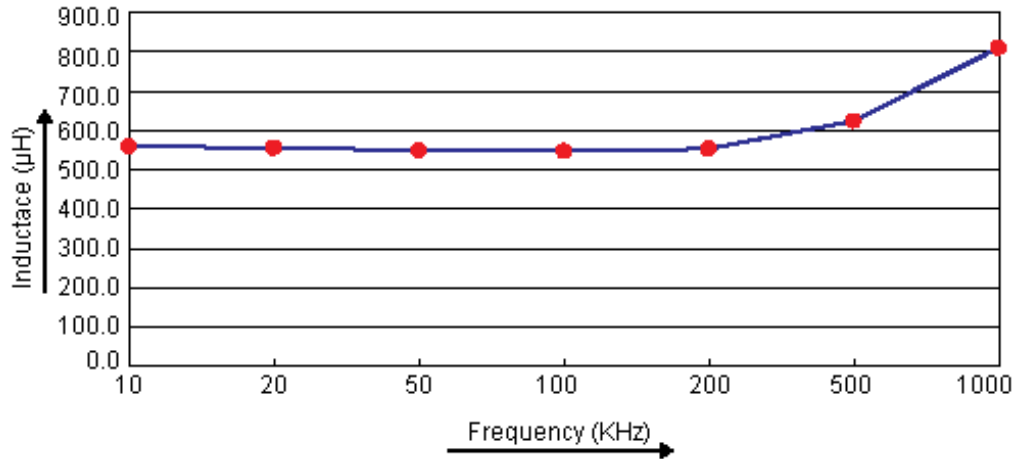
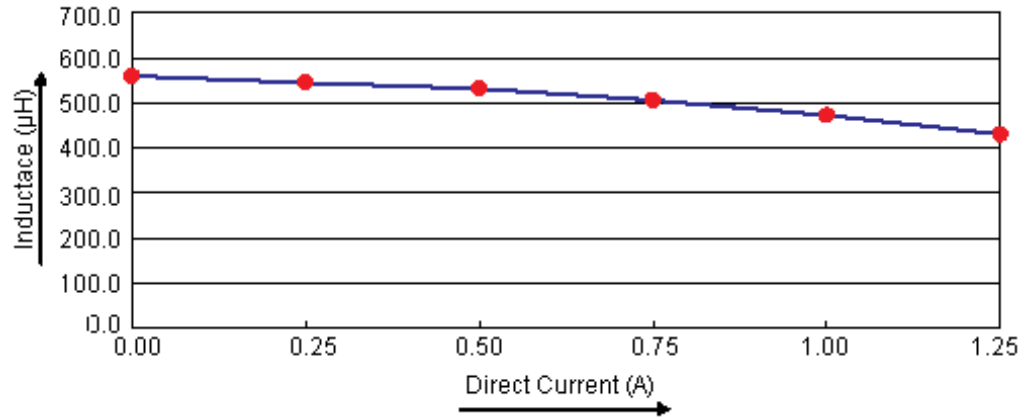
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Electric Characteristics



Test Data for Electrical

Test Item	L µH	DCR Ω	ΔT
Condition	10 KHz / 0.25 V	T <sub>a</sub> = 25°C	10 KHz / 0.25 V I <sub>rms</sub> = 1 A
Specification	560 ±20%	0.35 (Max.)	Temperature rise 40°C (Max.)
1	558.45	0.239	OK
2	565.25		
3	571.5		
4	569.05		
5	565.55		
Average	565.96	0.24	OK

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DATE:

04/5/11

DRAWING TITLE:

Inductor Toroidal

SIZE  
A

DWG NO.

M10002594

ELECTRONIC FILE  
MCAPB106424076B-561MU

REV  
A

SCALE: NTS

U.O.M.: mm

SHEET: 2 OF 3



PART NO.

MCAPB106424076B-561MU

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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 / -0.5 s

Material List

No.	Item	Material Description
1	Core	T60-75-TAF200 (Red / White)
2	Wire	Ø0.5 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%
4	Space	FR4 (thickness 1.5 mm)
5	Glue	TH320

Part Number Table

Description	Part Number
Inductor, Toroidal, 560µH, 20%	MCAPB106424076B-561MU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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DRAWING TITLE:

**Inductor Toroidal**

SIZE <b>A</b>	DWG NO. <b>M10002594</b>	ELECTRONIC FILE MCAPB106424076B-561MU	REV <b>A</b>
SCALE: NTS	U.O.M.: mm	SHEET: 3 OF 3	