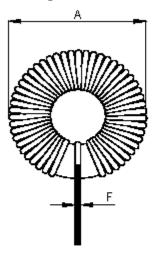


PART NO.

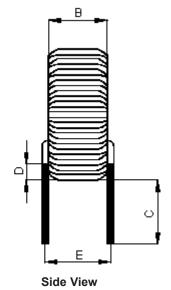
MCAP103726044A-680MU

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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Configurations and Dimensions



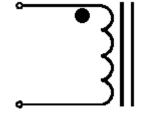
Front View



Α	12 mm	(Max.)
В	5.5 mm	(IVIAX.)
С	15 ±2 mm	-
D	1 mm	(Min.)
Е	4.5 ±2 mm	-
F	Ø0.4 mm	(Ref.)

Schematic Diagram





Note:

- 1. Wire UEFN/U (155°C) Ø0.4mm
- 2. 50TS (Reference) C.W

Electrical Characteristics

Test Condition		
10 KHz / 5 mA	L	68 μH ±20%
T _a = 25°C	DCR	100 mΩ (Max.)
10 KHz / 5 mA I _{rms} = 0.8 A	ΔΤ	Temperature rise 40°C (Max.)

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

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm
Specification	12 (Max.)	5.5 (Max.)	15 ±2	1 (Min.)	4.5 ±2	Ø0.4 (Ref.)
1	10.6	4.68	14.78	1.38	4.42	0.38
2	10.61	4.67	15.23	1.32	4.31	
3	10.64	4.63	14.79	1.41	4.33	0.39
4	10.69	4.62	15.03	1.33	4.36	
5	10.67	4.61	14.98	1.32	4.37	0.37
Average	10.64	4.64	14.96	1.35	4.36	0.38

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SHA	20/04/11
APPROVED BY:	DATE:
	04/05/11

DRAWING TITLE:						
SIZE	DWG NO.					
Λ	211011101					

I DDAWING TITLE

Inductor M10002632

ELECTRONIC FILE MCAP103726044A-680MU

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3

REV

Α

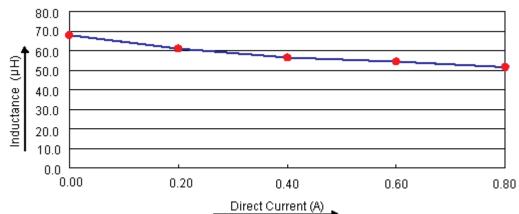


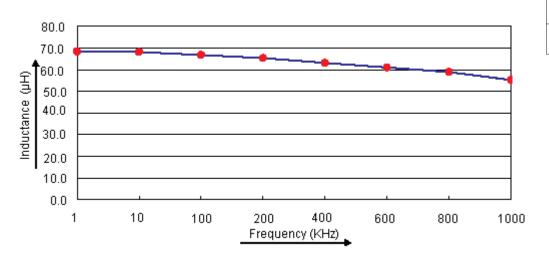
PART NO.

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







Test Data for Electrical

rest bata for Electrical							
Test Item	L µH	$\begin{array}{c} DCR \\ m\Omega \end{array}$	ΔΤ				
Condition	10 KHz / 5 mA	T _a = 25°C	10 KHz / 5 mA I _{rms} = 0.8 A				
Specification	68 ±20%	100 (Max.)	Temperature rise 40°C (Max.)				
1	67.23	90.34					
2	67.38	91.25					
3	68.37	90.47	ОК				
4	67.79	90.68					
5	67.58	90.69					
Average	67.67	90.69	ОК				

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SHA	20/04/11
APPROVED BY:	DATE:
	04/05/11

:	DRAWING TITLE:								
	Inductor								
:	SIZE	DWG NO.	M10002632	ELECTRONIC FILE MCAP103726044A-680MU			REV A		
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PART NO.

MCAP103726044A-680MU

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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Reliability Test

Test Item	Specificat	ions	Test Method and Remarks			
Operating temperature range	-55°C to +130°C		Including temperature rise due to self-generated heat.			
Storage condition	Ambient temperature Humidity	: 0°C to 40°C : Below 70% RH	To maintain the solderability of terminal electrodes, care must be taker control temperature and humidity in the storage area.			
Moisture sensitivity	Appearance DCR change Inductance change	: No abnormality No damage : Within ±5% : Within ±5%	According to J-STD- Test condition Test duration Recovery	2020B level 3 : 60°C 60% RH : 40 hrs : 1 to 2 hours of recovery under the standard condition after the removal from the test chamber.		
Solderability	All termination shall exsolder coating free from minimum of 95% of thany individual lead.	m defects for a	According to J-STD- Steam aging categor Steam aging duration Solder Solder temperature Dip time	y : 97°C 98% RH		

Material List

No.	Item	Material Description
1	Core	T37-75-TAF200 (Red / White)
2	Wire	Ø0.4 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number			
Inductor, 68µH, 20%, 2 Pins	MCAP103726044A-680MU			

http://www.element14.com

http://www.farnell.com

http://www.newark.com

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	Inductor						
:	SIZE DWG NO.			ELECTRONIC FILE			REV
	Α		M10002632	MCAF	P103726044A	-680MU	Α
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