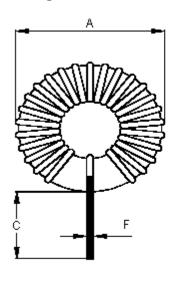


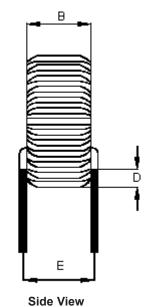
PART NO.

MCAP105228050A-101MU

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

Configurations and Dimensions





Α	15 mm	(Max.)		
В	8 mm	- (IVIAX.)		
С	12 ±1 mm	-		
D	1 mm	(Min.)		
Е	7 ±1 mm	-		
F	Ø0.3 mm	(Ref.)		

Schematic Diagram





Note:

- 1. Wire UEFN/U (155°C) Ø0.3mm
- 2. 51TS (Reference) C.W

Front View

Electrical Characteristics

Test Condition		
10 KHz / 5 mA	L	109 μH ±20%
T _a = 25°C	DCR	300 mΩ (Max.)
10 KHz / 5 mA I _{rms} = 0.5 A	ΔΤ	Temperature rise 40°C (Max.)

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

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DRAWN BY: DATE 20/04/11 DATE 20/04/11 DATE 04/05/11

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm
Specification	15 (Max.)	8 (Max.)	12 ±1	1 (Min.)	7 ±1	Ø0.3 (Ref.)
1	13.68	7.18	12.62	2.02	6.94	0.29
2	13.88	7.06	11.68	1.14	6.86	0.3
3	13.75	7.02	11.92	1.9	6.8	0.28
4	13.78	7.06	11.22	2.04	6.98	0.27
5	13.66	7.22	11.48	1.36	7.04	0.3
Average	13.75	7.11	11.78	1.69	6.92	0.29

E:	DRAWING TITLE:								
1	Induct								
E:	SIZE	DWG NO.	ELECTRONIC FILE						
1	Α		M10002637		MCAP105228050A-101MU				
E:									
1	SCAL	E: NTS	U.O.M.: mm		SHEET:	1 (OF 3		



PART NO.

MCAP105228050A-101MU

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

Test Data for Electrical

Test Item	L µH	DCR m Ω	ΔΤ
Condition	10 KHz / 5 mA	T _a = 25°C	10 KHz / 5 mA I _{rms} = 0.5 A
Specification	109 ±20%	300 (Max.)	Temperature rise 40°C (Max.)
1	111	251	
2	117.8	245	
3	112.5	249.8	OK
4	115.4	250.3	
5	116.4	243.3	-
Average	114.62	247.88	ОК

Reliability Test

Test Item	Specificatio	ons	Test Method and Remarks			
Operating temperature range	-55°C to +130°C		Including temperature rise due to self-generated heat.			
Storage condition	· · · · · · · · · · · · · · · · · · ·	: 0°C to 40°C : Below 70% RH	To maintain the solderability of terminal electrodes, care must be taken to con temperature and humidity in the storage area.			
Moisture sensitivity	DCR change	: No abnormality No damage : Within ±5% : 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 exh solder coating free from minimum of 95% of the any individual lead.	n defects for a	According to J-STD-002B Steam aging category : 97°C 98% RH for a Steam aging duration : 8 hrs			

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CHECKED BY:	DATE:
SID	20/04/11
APPROVED BY:	DATE:
	04/05/11

:	DRAW	NG TITLE:						
			Inducto	or				
:	SIZE	DWG NO.	14400000	ELEC	TRONIC FIL	E	П	REV
	Α		M10002637	MCAF	P105228050A	-101N	1U	Α
:	SCAL	E: NTS	U.O.M.: mm		SHEET:		OF	: 3



PART NO.

MCAP105228050A-101MU

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

Material List

No	Item	Material Description
1	Core	T50B-75-TAF200 (Red / White)
2	Wire	Ø0.3 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number	
Inductor, 100µH, 20%, 2 Pins	MCAP105228050A-101MU	

http://www.element14.com

http://www.farnell.com

http://www.newark.com

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

DRAW	NG TITLE:						
Inductor							
SIZE A	DWG NO.		M10002637	l -	TRONIC FIL P105228050A		REV A
SCALE: NTS			II O M·mm		SHEET	3 0	F 3