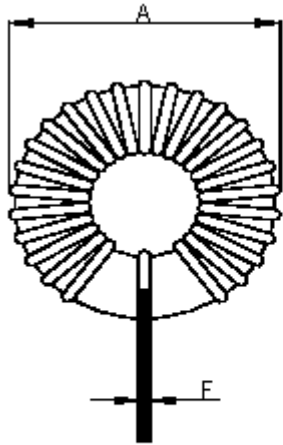
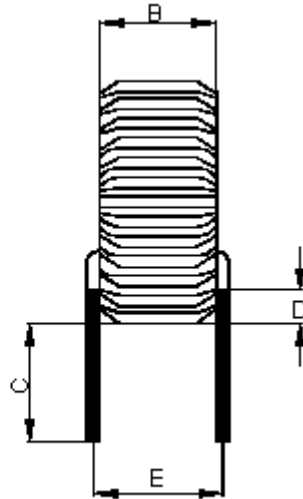


ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	VEE	20/4/11	SHA	20/4/11		04/5/11

Configurations and Dimensions



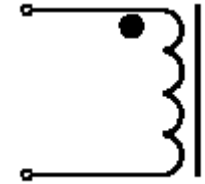
Front View



Side View

A	22.5 mm	(Max.)
B	12 mm	
C	12 ±1 mm	-
D	1 mm	(Min.)
E	10.5 ±1.5 mm	-
F	Ø0.3 mm	(Ref.)

Schematic Diagram



Note:

1. Wire UEFN/U (155°C) Ø0.3mm
2. 917TS (Reference) C.W



Electrical Characteristics

Test Condition		
10 KHz / 5 mA	L0	557 µH ±20%
T _a = 25°C	DCR	700 mΩ (Max.)
10 KHz / 5 mA I _{rms} = 0.5 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	D mm	E mm	F mm
Specification	22.5 (Max.)	12 (Max.)	12 ±1	1 (Min.)	10.5 ±1.5	Ø0.3 (Ref.)
1	21.16	10.4	12.04	1.98	10.38	0.29
2	21.38	10.48	12.08	2.34	10.2	
3	21.22	10.5	11.98	2.42	10.18	0.3
4		10.82	12.12	2.34	10.58	0.29
5	21.18	10.58	12.24	2.32	10.28	
Average	21.23	10.56	12.09	2.28	10.32	0.29

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20/04/11

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04/05/11

DRAWING TITLE:

Inductor

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10002603	MCAP108228086A-551U	A
SCALE: NTS		U.O.M.: mm	SHEET: 1 OF 3



PART NO.

MCAP108228086A-551U

REVISIONS

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

Test Data for Electrical

Test Item	L0 μ H	DCR m Ω	Δ T
Condition	10 KHz / 5 mA	T _a = 25°C	10 KHz / 5 mA I _{rms} = 0.5 A
Specification	557 \pm 20%	700 (Max.)	Temperature rise 40°C (Max.)
1	542.7	529.8	OK
2	557.4	539.3	
3	550.4	537.5	
4	529.8	517.9	
5	542.9	527.6	
Average	544.64	530.42	OK

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 \pm 5% Inductance change : Within \pm 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 \pm 5°C Dip time : 5 +0 / -0.5 s

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DRAWING TITLE:

Inductor

SIZE
A

DWG NO.

M10002603

ELECTRONIC FILE
MCAP108228086A-551UREV
A

SCALE: NTS

U.O.M.: mm

SHEET: 2 OF 3



PART NO.

MCAP108228086A-551U

REVISIONS

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

Material List

No.	Item	Material Description
1	Core	T80B-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, 550µH, AP, 2 Pins	MCAP108228086A-551U

<http://www.element14.com>
<http://www.farnell.com>
<http://www.newark.com>

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	VEE	20/04/11						
	CHECKED BY:	DATE:	SIZE	DWG NO.	M10002603		ELECTRONIC FILE	REV
	SHA	20/04/11	A				MCAP108228086A-551U	A
	APPROVED BY:	DATE:	SCALE: NTS		U.O.M.: mm		SHEET: 3	OF 3
		04/05/11						