



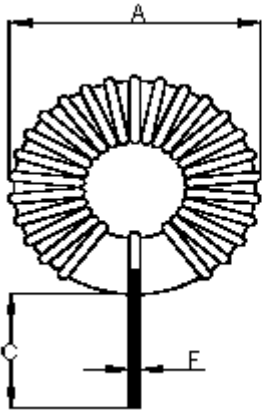
PART NO.

MCAP108224076A-391LU

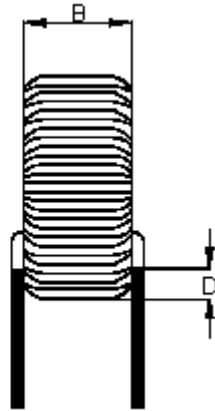
REVISIONS

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

Configurations and Dimensions



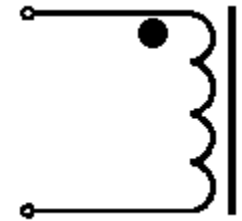
Front View



Side View

A	23 mm	(Max.)
B	12.5 mm	(Max.)
C	12 ±1 mm	-
D	1 mm	(Min.)
F	Ø0.5 mm	(Ref.)

Schematic Diagram



Note:

1. Wire UEFN/U (155°C) Ø0.5mm
2. 76TS (Reference) C.W



Electrical Characteristics

Test Condition		
10 KHz / 5 mA	L0	390 µH ±15%
T _a = 25°C	DCR	250 mΩ (Max.)
10 KHz / 5 mA I _{rms} = 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	D mm	F mm
Specification	23 (Max.)	12.5 (Max.)	12 ±1	1 (Min.)	Ø0.5 (Ref.)
1	22	11.54	11.58	1.82	0.51
2	22.37	11.46	12.69	1.85	0.5
3	21.99	11.71	11.96	1.89	0.51
4	22.15	11.27	12.15	1.9	
5	22.26	11.46	11.92	1.84	0.52
Average	22.15	11.49	12.06	1.86	0.51

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20/04/11

DATE:

20/04/11

DATE:

04/05/11

DRAWING TITLE:

Inductor

SIZE
A

DWG NO.

M10002640

ELECTRONIC FILE
MCAP108224076A-391LU

REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



PART NO.

MCAP108224076A-391LU

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Test Data for Electrical

Test Item	L0 μH	DCR mΩ	ΔT
Condition	10 KHz / 5 mA	T _a = 25°C	10 KHz / 5 mA I _{rms} = 1 A
Specification	390 ±15%	250 (Max.)	Temperature rise 40°C (Max.)
1	389.24	207.6	OK
2	390.03	198.9	
3	393.78	214.2	
4	389.42	212.8	
5	396.89	220.4	
Average	391.87	210.78	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 ±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

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	04/05/11

DRAWING TITLE:

Inductor

SIZE A	DWG NO. M10002640	ELECTRONIC FILE MCAP108224076A-391LU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



PART NO.

MCAP108224076A-391LU

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Material List

No	Item	Material Description
1	Core	T80B-75-TAF200 (Red / White)
2	Wire	Ø0.5 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 390µH, 15%, 2 Pins	MCAP108224076A-391LU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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SHEET: 3 OF 3