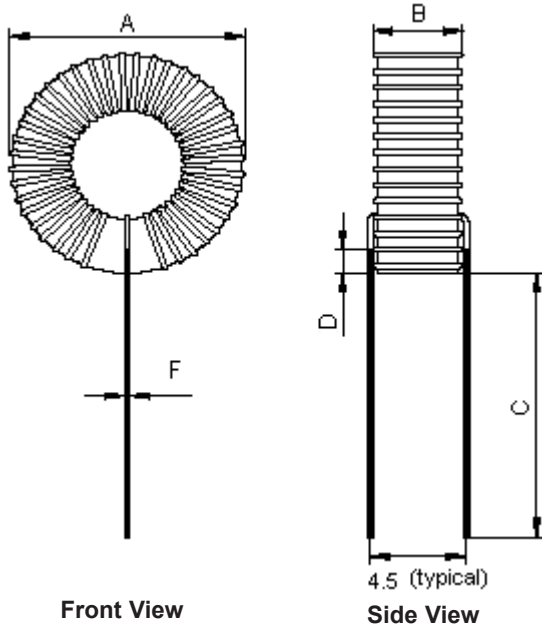


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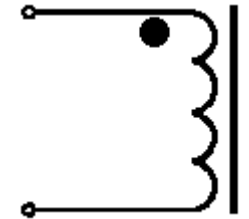
Configurations and Dimensions



Dimensions : Millimetres

A	12 mm	(Max.)
B	5.5 mm	(Max.)
C	15 ±2 mm	-
D	1 mm	(Min.)
F	Ø0.6 ±0.05 mm	-

Schematic Diagram



Note:

1. Wire UEFN/U (155°C) Ø0.6mm
2. 17TS (Reference) C.W



Electrical Characteristics

Test Condition		
10 KHz / 5 mA	L	8.2 µH ±20%
T _a = 25°C	DCR	20 mΩ (Max.)
10 KHz / 5 mA I _{rms} = 2 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	12 (Max.)	5.5 (Max.)	15 ±2	1 (Min.)	Ø0.6 ±0.5
1	11.11	4.68	15.34	1.98	0.59
2	11.12	4.72	14.9	1.97	0.6
3	11.15	4.68	15.2	1.96	0.59
4	11.13	4.69	15.24	1.95	0.6
5	11.14	4.71	15.31	1.99	0.6
Average	11.13	4.7	15.2	1.97	0.6

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04/5/11

DRAWING TITLE:

Inductor

 SIZE
A

DWG NO.

M10002631

 ELECTRONIC FILE
MCAP103722016A-8R2MU

 REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



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Test Data for Electrical

Test Item	L μH	DCR mΩ	ΔT
Condition	10 KHz / 5 mA	T _a = 25°C	10 KHz / 5 mA I _{rms} = 2 A
Specification	8.2 ±20%	20 (Max.)	Temperature rise 40°C (Max.)
1	8.16	15.09	OK
2	8.26	15.11	
3	8.38	15.09	
4	8.58	14.96	
5	8.42	15.56	
Average	8.36	15.16	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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DRAWING TITLE:

Inductor

SIZE A	DWG NO. M10002631	ELECTRONIC FILE MCAP103722016A-8R2MU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



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Material List

No.	Item	Material Description
1	Core	T37-75-TAF200 (Red / White)
2	Wire	Ø0.6 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 8.2µH, 20%, 2 Pins	MCAP103722016A-8R2MU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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