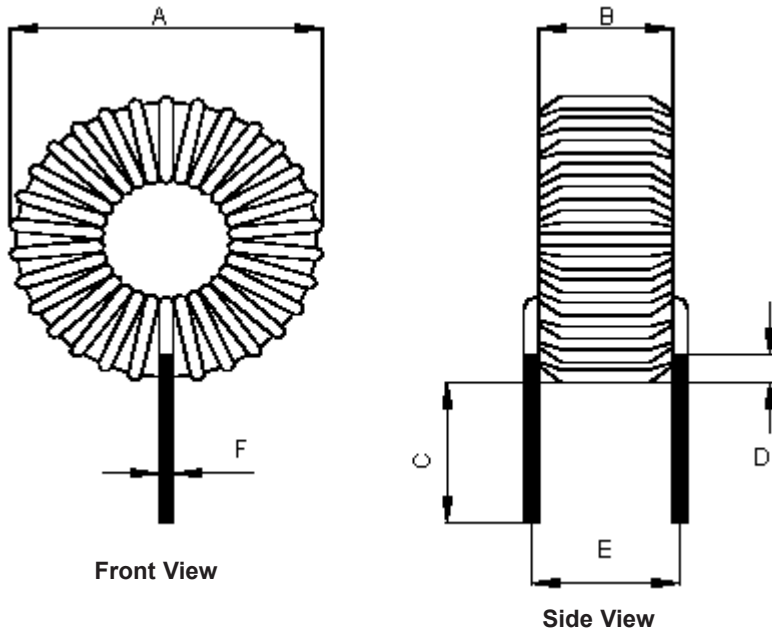


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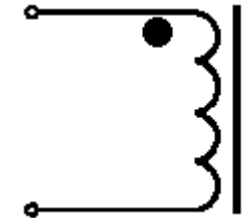
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	ASH	20/4/11	SHA	20/4/11		04/5/11

Configurations and Dimensions



A	10.5 mm	(Max.)
B	6 mm	
C	15 ±2 mm	-
D	1 mm	(Min.)
E	5 ±2 mm	-
F	∅0.6 ±0.1 mm	-

Schematic Diagram



Note:

1. Wire UEFN/U (155°C) ∅0.6mm
2. 17TS (Reference) C.W

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm
Specification	10.5 (Max.)	6 (Max.)	15 ±2	1 (Min.)	5 ±2	∅0.6 ±0.1
1	9.9	5.62	15.5	1.8	5.2	0.6
2	10.1	5.58	15.7	2	5.05	
3	10	5.36	15.2	2.8	4.7	
4	10.1	5.57	15.3	1.4	4.98	
5	10	5.48	15	1.9	4.5	
Average	10.02	5.52	15.34	1.98	4.89	0.6

Electrical Characteristics

Test Condition		
10 KHz / 5 mA	L	10 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

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SHA

APPROVED BY:

DATE:

20/04/11

DATE:

20/04/11

DATE:

04/05/11

DRAWING TITLE:

Inductor

 SIZE
A

DWG NO.

M10002630

 ELECTRONIC FILE
MCAP103022016A-100MU

 REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



PART NO.

MCAP103022016A-100MU

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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	10 ±20%	20 (Max.)	Temperature rise 40°C (Max.)
1	10.3	16.32	OK
2	10.4	15.98	
3		16.45	
4	10.6	16.25	
5	10.3	15.97	
Average	10.4	16.19	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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SHA	20/04/11
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	04/05/11

DRAWING TITLE:

Inductor

SIZE A	DWG NO. M10002630	ELECTRONIC FILE MCAP103022016A-100MU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



PART NO.

MCAP103022016A-100MU

REVISIONS

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

Material List

No.	Item	Material Description
1	Core	T30-75-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, 10µH, 20%, 2 Pins	MCAP103022016A-100MU

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

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Inductor

SIZE
A

DWG NO.

M10002630

ELECTRONIC FILE
MCAP103022016A-100MUREV
A

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U.O.M.: mm

SHEET: 3 OF 3