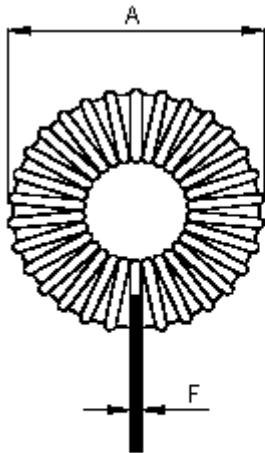


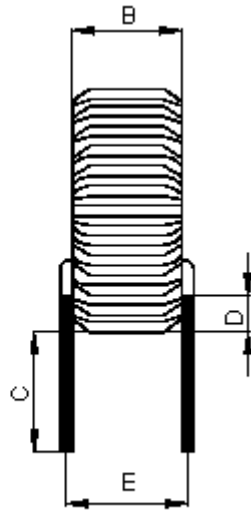
REVISIONS

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Configurations and Dimensions



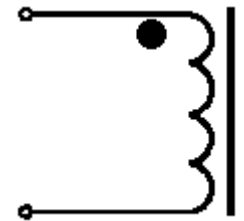
Front View



Side View

A	16 mm	(Max.)
B	8.5 mm	(Max.)
C	15 ±2 mm	-
D	1 mm	(Min.)
E	6.5 ±2 mm	-
F	∅0.8 ±0.1 mm	-

Schematic Diagram



Note:

1. Wire UEFN/U (155°C) ∅0.8mm
2. 24TS (Reference) C.W



Electrical Characteristics

Test Condition		
10 KHz / 5 mA	L	20 µH ±20%
T _a = 25°C	DCR	20 mΩ (Max.)
10 KHz / 5 mA I _{rms} = 3 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	16 (Max.)	8.5 (Max.)	15 ±2	1 (Min.)	6.5 ±2	∅0.8 ±0.1
1	14.96	6.71	14.99	1.13	6.11	0.79
2	15.16	6.77	14.81	1.22	5.81	0.78
3	15.19	6.86	14.54	1.19	5.73	0.77
4	15.2	6.88	14.52	1.27	5.84	0.81
5	15.02	6.73	14.63	1.66	6.32	0.8
Average	15.11	6.79	14.7	1.29	5.96	0.79

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20/04/11

DATE:

04/05/11

DRAWING TITLE:

Inductor

 SIZE
A

DWG NO.

M10002636

 ELECTRONIC FILE
MCAP105020023A-200MU

 REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



PART NO.

MCAP105020023A-200MU

REVISIONS

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

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} = 3 A
Specification	20 ±20%	20 (Max.)	Temperature rise 40°C (Max.)
1	20.53	16.38	OK
2	20.76	16.82	
3	21.17	16.9	
4	18.98	16.08	
5	20.57	16.95	
Average	20.4	16.63	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. M10002636	ELECTRONIC FILE MCAP105020023A-200MU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



PART NO.

MCAP105020023A-200MU

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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Material List

No	Item	Material Description
1	Core	T50-75-TAF200 (Red / White)
2	Wire	Ø0.8 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 20µH, 20%, 2 Pins	MCAP105020023A-200MU

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

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DRAWING TITLE:

Inductor

SIZE
A

DWG NO.

M10002636

ELECTRONIC FILE
MCAP105020023A-200MUREV
A

SCALE: NTS

U.O.M.: mm

SHEET: 3 OF 3