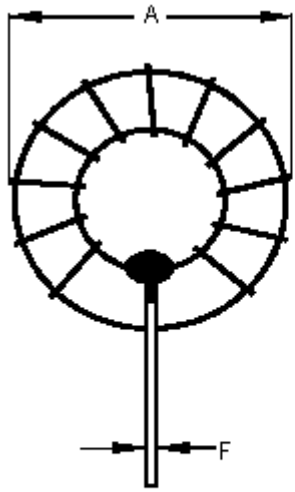


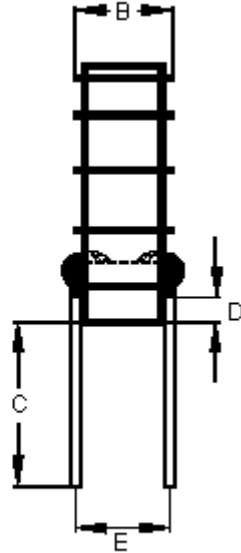
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Configurations and Dimensions



Front View



Side View

A	16 mm	(Max.)
B	12 mm	
C	2.2 ^{+0.7} / _{-0.0} mm	-
D	1 mm	(Min.)
E	11 ±2 mm	-
F	Ø0.65 mm	(Ref.)

Schematic Diagram



Note:

1. Wire UEFN/U (155°C) Ø0.65mm
2. 25TS (Reference) C.W



Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm
Specification	16 (Max.)	12 (Max.)	2.2 ^{+0.7} / _{-0.0}	1 (Min.)	11 ±2	Ø0.65 (Ref.)
1	15.18	11.2	2.57	1.58	11.07	0.63
2	15.22	11.18	2.65	1.69	11.23	
3	15.17	11.15	2.78	1.75	10.89	0.64
4	15.25	11.24	2.64	1.65	10.95	
5	15.21	11.17	2.56	1.85	11.14	0.63
Average	15.21	11.19	2.64	1.7	11.06	0.63

Electrical Characteristics

Test Condition		
1 KHz / 0.25 V	L	40 µH ±20%
T _a = 25°C	DCR	60 mΩ (Max.)
1 KHz / 0.25 V I _{rms} = 2 A	ΔT	Temperature rise 40°C (Max.)

Operating temperature : -55°C to +130°C

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DRAWING TITLE:

Inductor

 SIZE
A

DWG NO.

M10002637

ELECTRONIC FILE

MCAP105422025A-400MU

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



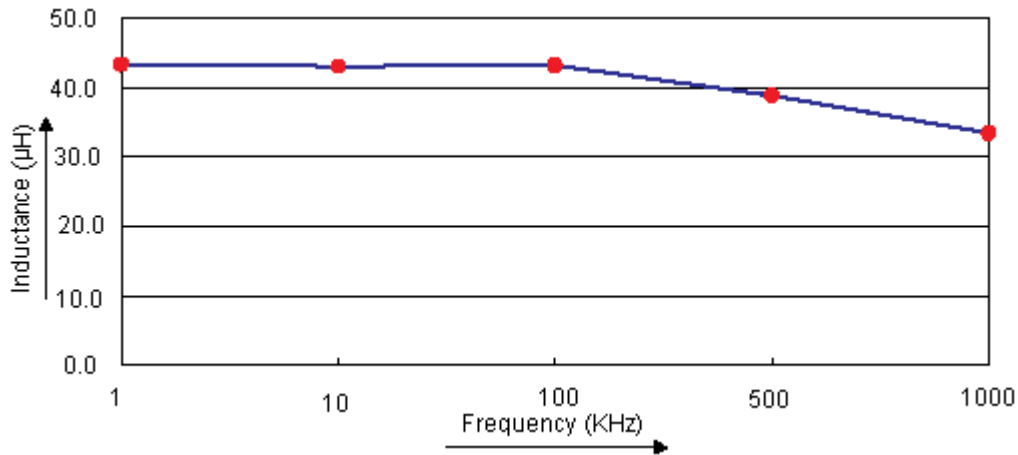
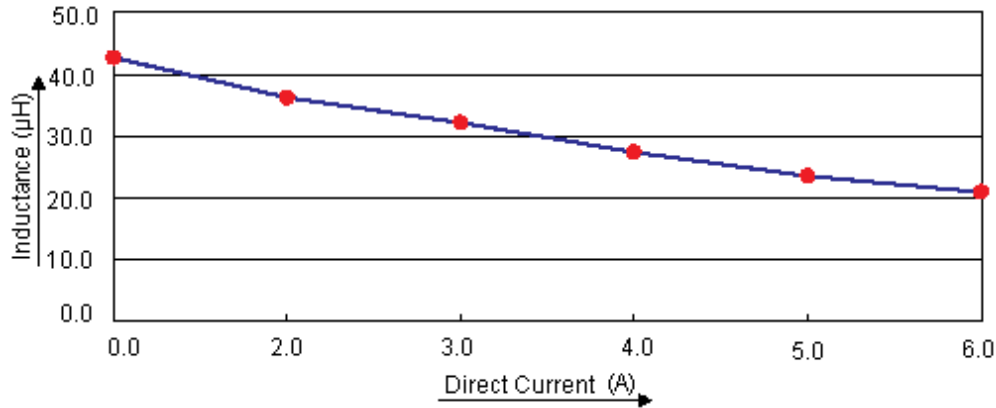
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Electric Characteristics



Test Data for Electrical

Test Item	L µH	DCR mΩ	ΔT
Condition	1 KHz / 0.25 V	T _a = 25°C	1 KHz / 0.25 V I _{rms} = 2 A
Specification	40 ±20%	60 (Max.)	Temperature rise 40°C (Max.)
1	43.93	37.53	OK
2	42.77	36.89	
3	44.31	37.48	
4	42.71	37.06	
5	43.37	37.18	
Average	43.42	37.23	OK

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SIZE A	DWG NO. M10002637	ELECTRONIC FILE MCAP105422025A-400MU	REV A
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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

Material List

No.	Item	Material Description
1	Core	T50D-75-TAF200 (Red / White)
2	Wire	Ø0.65 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%
4	Glue	TH100A / TH100B

Part Number Table

Description	Part Number
Inductor, 40µH, 20%, 2 Pins	MCAP105422025A-400MU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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Inductor

SIZE A	DWG NO. M10002637	ELECTRONIC FILE MCAP105422025A-400MU	REV A
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