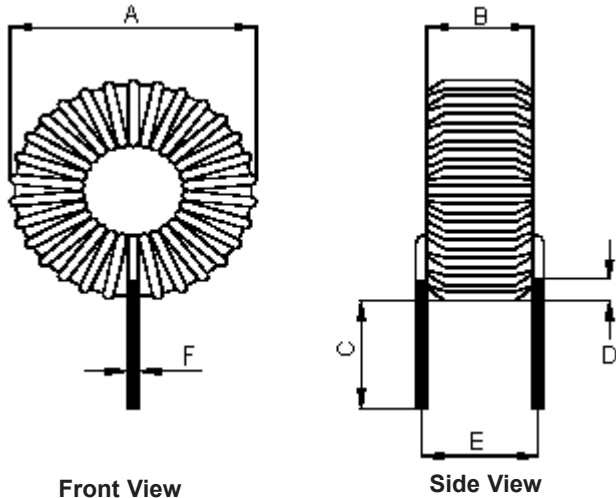


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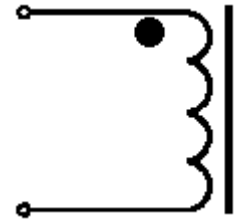
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	SID	20/4/11	SHA	20/4/11		04/5/11

## Configurations and Dimensions



A	26.5 mm	(Max.)
B	14 mm	
C	25 ±2 mm	-
D	0 to 3 mm	-
E	11.5 ±1 mm	-
F	Ø1 ±0.1 mm	-

## Schematic Diagram



Note:

1. Wire UEFN/U (155°C) Ø1mm
2. 69TS (Reference) C.W



## Electrical Characteristics

Test Condition		
1 KHz / 0.25 V	L	220 µH ±20%
T <sub>a</sub> = 25°C	DCR	56 mΩ (Max.)
1 KHz / 0.25 V I <sub>rms</sub> = 4 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	26.5 (Max.)	14 (Max.)	25 ±2	0 to 3	11.5 ±1	Ø1 ±0.1
1	24.75	12.45	25.54	1.54	11.64	0.99
2	24.57	12.13	25.13	1.82	11.53	
3	24.47	11.72	24.98	1.87	11.77	1
4	24.83	11.92	24.99	1.43	11.57	
5	24.43	11.54	25.8	1.57		
<b>Average</b>	<b>24.61</b>	<b>11.95</b>	<b>25.29</b>	<b>1.65</b>	<b>11.62</b>	<b>1</b>

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## DATE:

20/04/11

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## DATE:

04/05/11

## DRAWING TITLE:

**Inductor**

 SIZE  
A

DWG NO.

**M10002610**

ELECTRONIC FILE

MCAP108018069A-221MU

REV

**A**

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



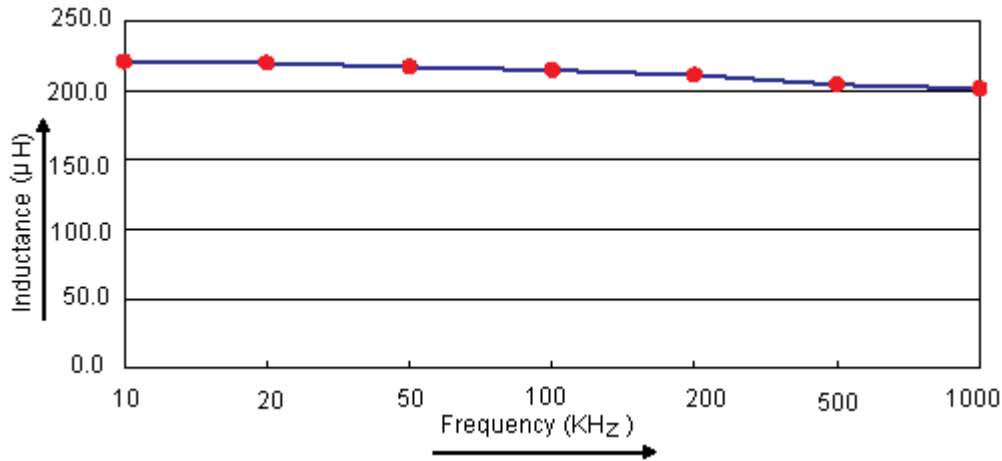
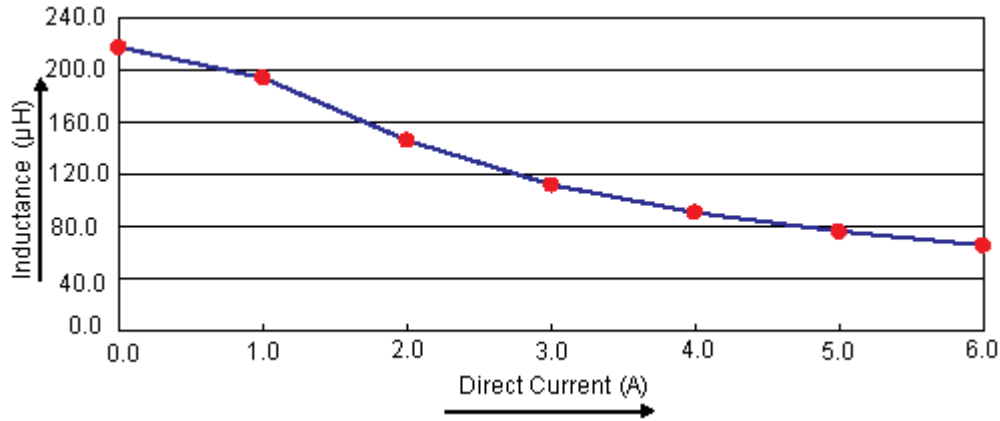
PART NO.

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REVISIONS

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Electric Characteristics



Test Data for Electrical

Test Item	L µH	DCR mΩ	ΔT
Condition	1 KHz / 0.25 V	T <sub>a</sub> = 25°C	1 KHz / 0.25 V I <sub>rms</sub> = 4 A
Specification	220 ±20%	56 (Max.)	Temperature rise 40°C (Max.)
1	219.16	43.02	OK
2	225.85	41.68	
3	225	41.7	
4	218.44	41.75	
5	217.96	42.84	
Average	221.28	42.2	OK

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**Inductor**

SIZE <b>A</b>	DWG NO. <b>M10002610</b>	ELECTRONIC FILE MCAP108018069A-221MU	REV <b>A</b>
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



PART NO.

MCAP108018069A-221MU

REVISIONS

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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	T80-75-TAF200 (Red / White)
2	Wire	Ø1 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 220µH, 20%, 2 Pins	MCAP108018069A-221MU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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**Inductor**

SIZE <b>A</b>	DWG NO. <b>M10002610</b>	ELECTRONIC FILE MCAP108018069A-221MU	REV <b>A</b>
SCALE: NTS		U.O.M.: mm	SHEET: 3 OF 3