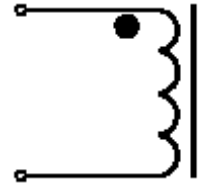




Schematic Diagram

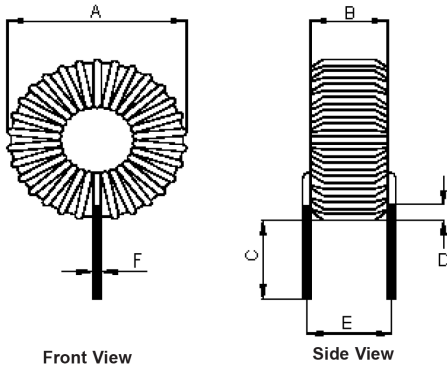


RoHS
Compliant

Note:

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

Configurations and Dimensions



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

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 (Min.)	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	
4	24.83	11.92	24.99	1.43	11.57	1
5	24.43	11.54	25.8	1.57		
Average	24.61	11.95	25.29	1.65	11.62	1

Electrical Characteristics

Test Condition		
1kHz / 0.25V	L	220µH ±20%
T _A = 25°C	DCR	56mΩ (Max.)
10kHz / 0.25V I _{rms} = 4A	ΔT	Temperature rise 40°C (Max.)

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

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 / -0.5s

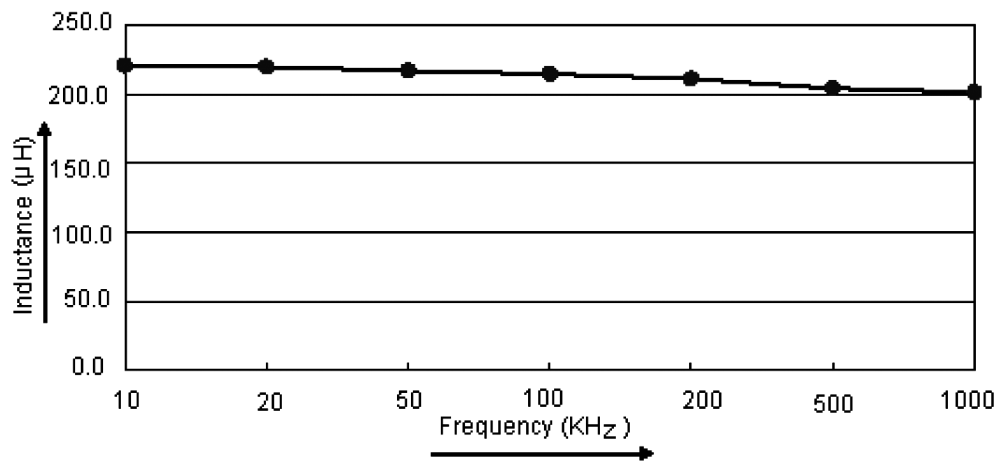
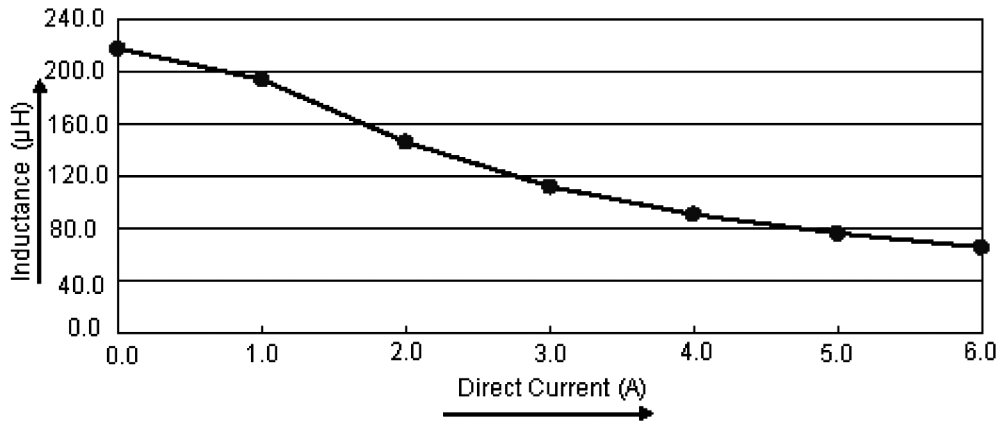
Test Data for Electrical

Test Item	L μH	DCR mΩ	ΔT
Condition	10kHz / 0.25V	T _A = 25°C	10kHz / 0.25V I _{rms} = 4A
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

Material List

No.	Item	Material Description
1	Core	T80-75-TAF200 (Red / White)
2	Wire	Ø1mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Electric Characteristics



Part Number Table

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

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