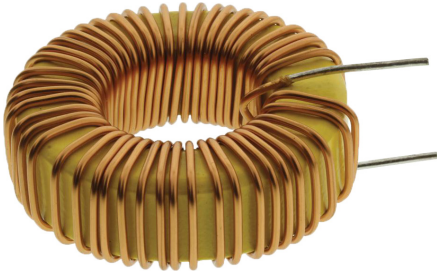
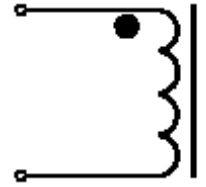


RoHS
Compliant



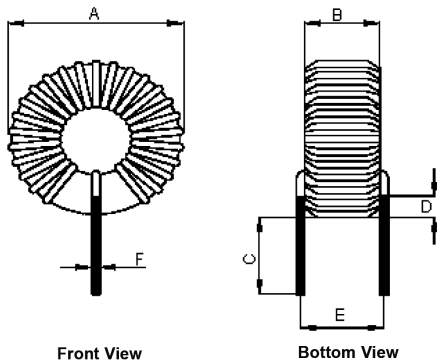
Schematic Diagram



Note:

1. Wire UEFN/U Ø1mm (155°C)
2. 49TS (Reference) C.W

Configurations and Dimensions



A	43mm (Max.)
B	15mm (Max.)
C	12 ±1mm
D	1mm (Min.)
E	13 ±1.5mm
F	Ø1.1mm (Max.)

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm
Specification	43 (Max.)	15 (Max.)	12 ±1	1 (Min.)	13 ±1.5	Ø1.1 (Max.)
1	41.75	14.13	11.11	4.48	13.89	1.02
2	41.67	14.21	11.23	3.47	13.67	1.03
3	41.85	14.24	11.7	4.14	13.46	0.99
4	41.81	14.06	11.93	3.46	13.66	0.97
5	41.83	14.11	11.59	4.12		1.01
Average	41.78	14.15	11.51	3.93	13.67	1

Electrical Characteristics

Test Condition		
10kHz / 5 mA	L	220µH ±20%
T _A = 25°C	DCR	60mΩ (Max.)
10kHz / 5mA I _{rms} = 11A	ΔT	Temperature rise 40°C (Max.)

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

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Farnell.com/multicomp-pro
Element14.com/multicomp-pro

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

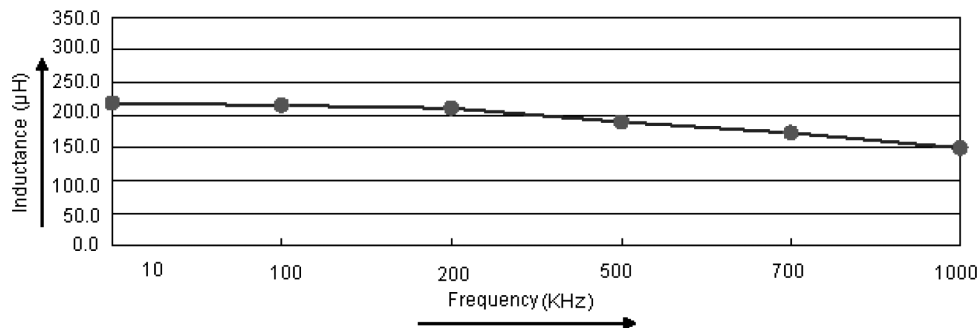
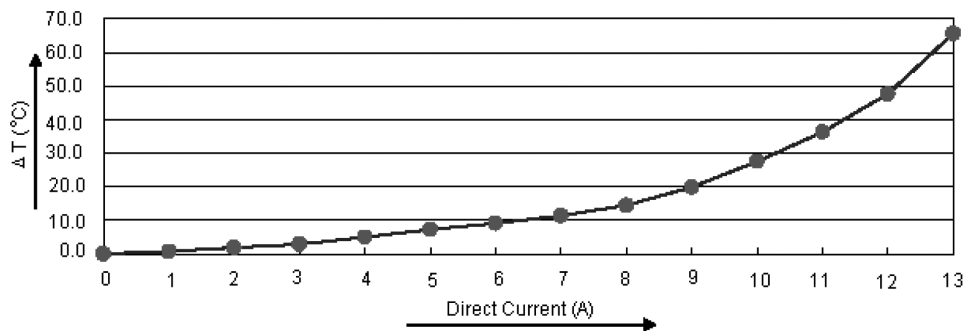
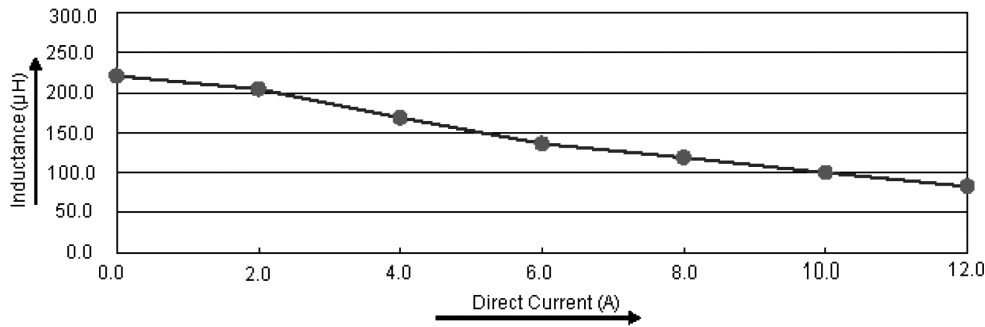
Test Data for Electrical

Test Item	L μH	DCR mΩ	ΔT
Condition	10kHz / 5mA	at 25°C	10kHz / 5mA I _{rms} = 11A
Specification	220 ±20%	60 (Max.)	Temperature rise 40°C (Max.)
1	220.2	45.74	OK
2	220.6	45.94	
3	220.1	45.58	
4	217.8	45.38	
5	221.9	45.76	
Average	220.12	45.68	OK

Material List

No.	Item	Material Description
1	Core	T150-75H-TAF200 (Red / White)
2	Wire	Ø1mm UEFN/U (155°C)
3	Solder	Sn99.3% / Cu0.7%

Electric Characteristics



Part Number Table

Description	Part Number
Inductor, 220µH, 20%, 2 Pins	MCAP115018047A-221MU

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