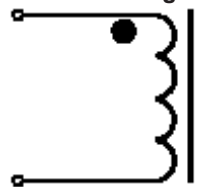


RoHS  
Compliant



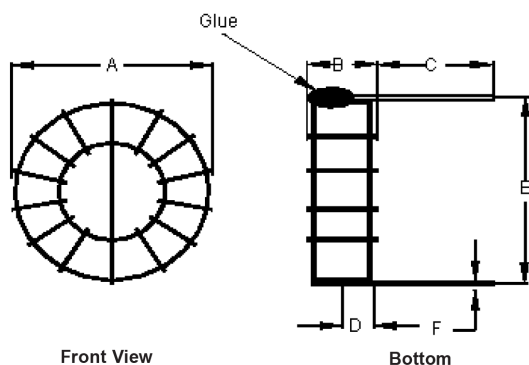
Schematic Diagram



**Note:**

1. Wire UEFN/U Ø1.6mm (155°C)
2. 14TS (Reference) C.W

## Configurations and Dimensions



A	40mm (Max.)
B	17.5mm (Max.)
C	16 ±3mm
D	0mm (Min.)
E	36.5 ±1.5mm
F	Ø1.6 ±0.1mm

## Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm
Specification	<b>40 (Max.)</b>	<b>17.5 (Max.)</b>	<b>16 ±2</b>	<b>0 (Min.)</b>	<b>36.5 ±1.5</b>	<b>Ø1.6 ±0.1</b>
1	38.36	15.47	16.86	1.14	35.91	1.58
2	38.25	15.6	16.91	0.97	36.59	1.57
3	38.41	15.41	16.65	1.08	36.7	1.58
4	38.39	15.38	16.71	1.18	36.79	1.59
5	38.3	15.54	16.83	1.25	37.21	1.58
<b>Average</b>	<b>38.34</b>	<b>15.48</b>	<b>16.79</b>	<b>1.12</b>	<b>36.64</b>	<b>1.58</b>

## Electrical Characteristics

Test Condition		
1kHz / 0.25V	L	15µH ±20%
T <sub>A</sub> = 25°C	DCR	7mΩ (Max.)
10kHz / 0.25V Irms = 20A	ΔT	Temperature rise 40°C (Max.)

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

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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

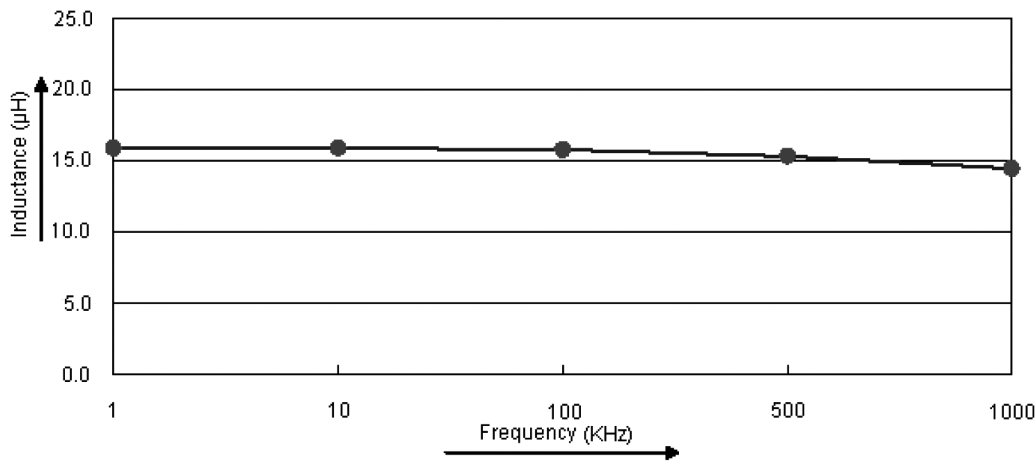
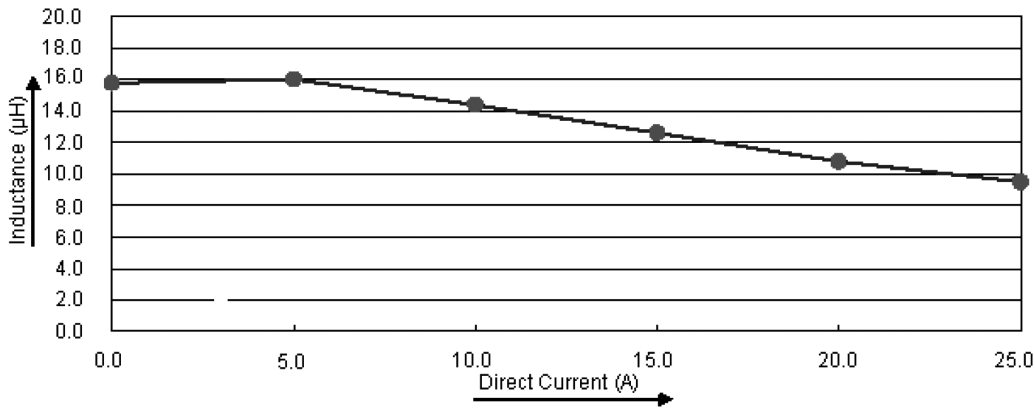
## Test Data for Electrical

Test Item	L μH	DCR mΩ	ΔT
Condition	10kHz / 0.25V	T <sub>A</sub> = 25°C	10kHz / 0.25V I <sub>rms</sub> = 4.3A
Specification	15 ±20%	7 (Max.)	Temperature rise 40°C (Max.)
1	15.83	5.87	OK
2	15.38	5.84	
3	15.08	5.86	
4	15.61	5.88	
5	15.89	5.86	
<b>Average</b>	<b>15.56</b>	<b>5.86</b>	<b>OK</b>

## Material List

No.	Item	Material Description
1	Core	T130-75H-TAF200 (Red / White)
2	Wire	Ø1.6mm UEFN/U (155°C)
3	Solder	Sn99.3% / Cu0.7%
4	Tape	TH320

## Electric Characteristics



## Part Number Table

Description	Part Number
Inductor, 15µH, 20%, 2 Pins	MCAP113014014K-150MU

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