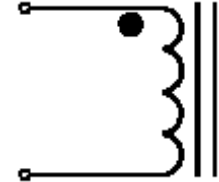


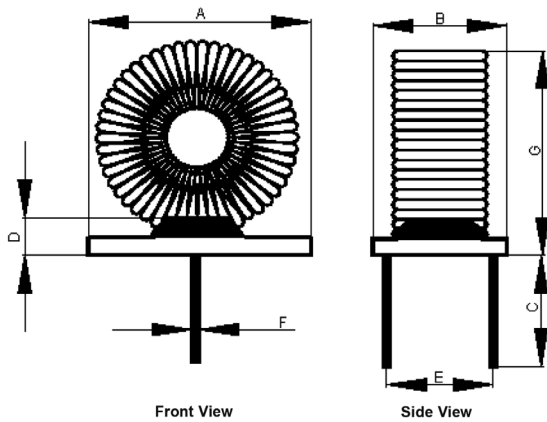
RoHS  
Compliant



Schematic Diagram



## Configurations and Dimensions



A	26 ±0.5mm
B	13 ±0.5mm
C	4 ±1mm
D	1mm (Min.)
E	11 ±1mm
F	Ø0.8mm (Ref.)
G	29mm (Max.)

Note:

1. Wire UEFN/U (155°C) Ø0.8mm
2. 101TS (Reference) C.W

## Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm	G mm
Specification	260 ±0.5	13 ±0.5	4 ±1	1 (Min.)	11 ±1	Ø0.8 (Ref.)	29 (Max.)
1	25.83	13.07	4.05	3.96	11.18	0.77	25.88
2	25.89	13.06	4.02	3.32	11.14	0.76	25.95
3	25.84	12.86	4.12	4.27	10.93	0.78	25.55
4	25.82	12.89	3.99	3.64	10.71	0.76	25.64
5	25.88	12.94	4.05	4.08	11.25	0.79	25.97
<b>Average</b>	<b>25.85</b>	<b>12.96</b>	<b>4.05</b>	<b>3.85</b>	<b>11.04</b>	<b>0.77</b>	<b>25.8</b>

## Electrical Characteristics

Test Condition		
1kHz / 0.25V	L	470µH ±20%
T <sub>A</sub> = 25°C	DCR	110mΩ (Max.)
1kHz / 0.25V I <sub>rms</sub> = 3A	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

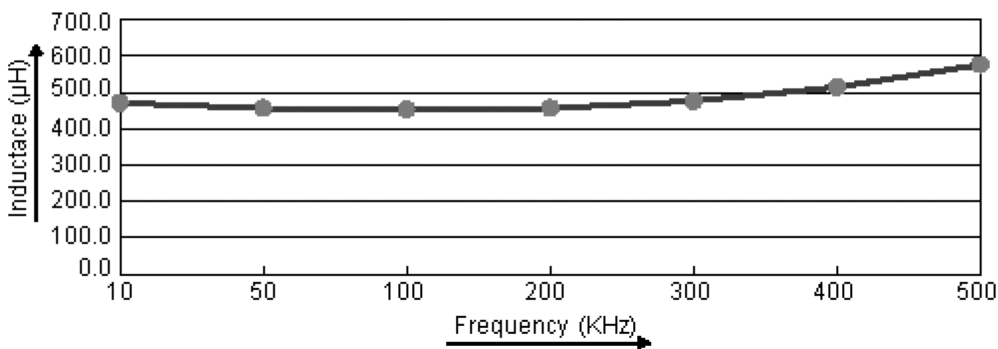
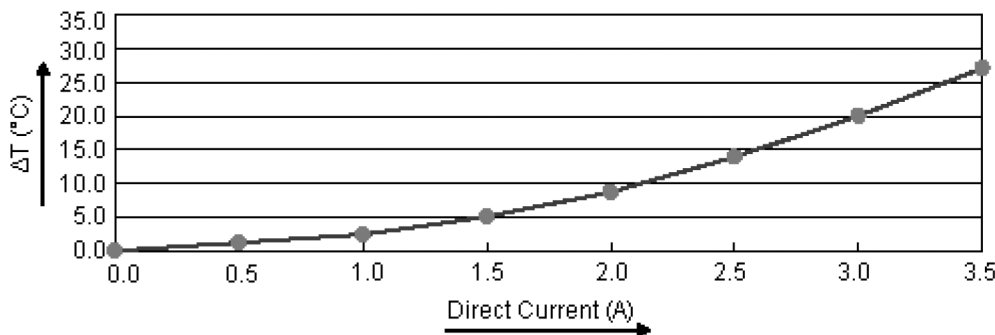
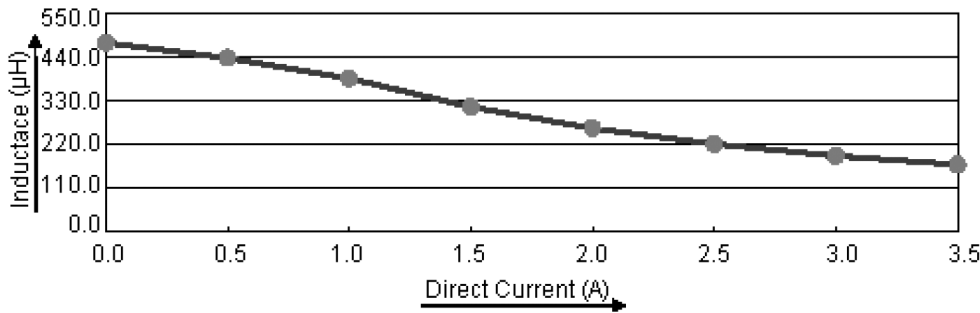
## Material List

No.	Item	Material Description
1	Core	T80-75-TAF200 (Red / White)
2	Wire	Ø0.8mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%
4	Space	FR4 (thickness 1.5mm)
5	Glue	TH320

## Test Data for Electrical

Test Item	L µH	DCR mΩ	ΔT
Condition	1kHz 0.25V	at 25°C	1kHz 0.25V I <sub>rms</sub> = 3A
Specification	470 ±20%	110 (Max.)	Temperature rise 40°C (Max.)
1	484.3	96.03	OK
2	481.7	94.2	
3	475.75	96.02	
4	460.3	94.96	
5	479.4	94.8	
<b>Average</b>	<b>476.29</b>	<b>95.2</b>	<b>OK</b>

## Electric Characteristics



### Part Number Table

Description	Part Number
Inductor, Toroidal, 470µH, 20%	MCAPB108020100A-471MU

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