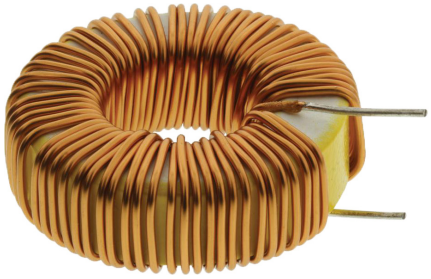
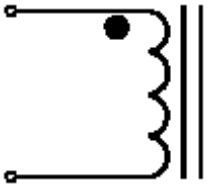
Inductor

multicomp PRO

RoHS Compliant

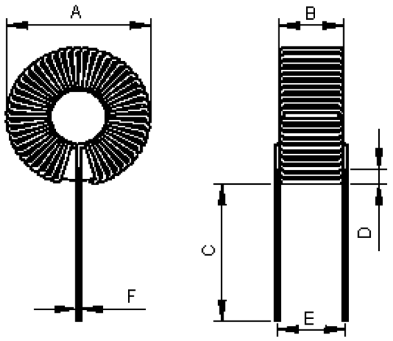


Schematic Diagram



Note:
1. Wire UEFN/U 1mm (155°C)
2. 63TS (Reference) C.W

Configurations and Dimensions



Front View Bottom View

A	44mm (Max.)
B	15.5mm (Max.)
C	12 ±1mm
D	1mm (Min.)
E	13.5 ±1.5mm
F	Ø1mm (Ref.)

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm
Specification	**44 (Max.)**	**15.5 (Max.)**	**12 ±1**	**1 (Min.)**	**13.5 ±1.5**	**Ø1 (Ref.)**
1	41.76	14.01	12.25	2.73	13.52	1.01
2	41.96	14.17	12.15	2.92	13.3	1
3	41.84	13.88	12.3	2.86	13.58	1.01
4	41.83	15.15	12.18	3.01	13.48	1
5	41.96	14.42	12.08	3.12	13.52	1
Average	**41.87**	**14.33**	**12.19**	**2.93**	**13.48**	**1**

Electrical Characteristics

Test Condition		
10kHz / 5mA	L	380μH ±20%
T_A = 25°C	DCR	70mΩ (Max.)
10kHz / 5mA Irms = 10.5A (Max.)	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

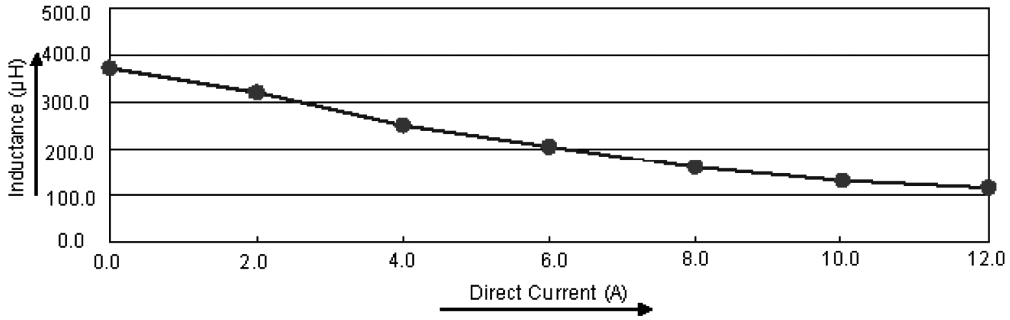
Test Data for Electrical

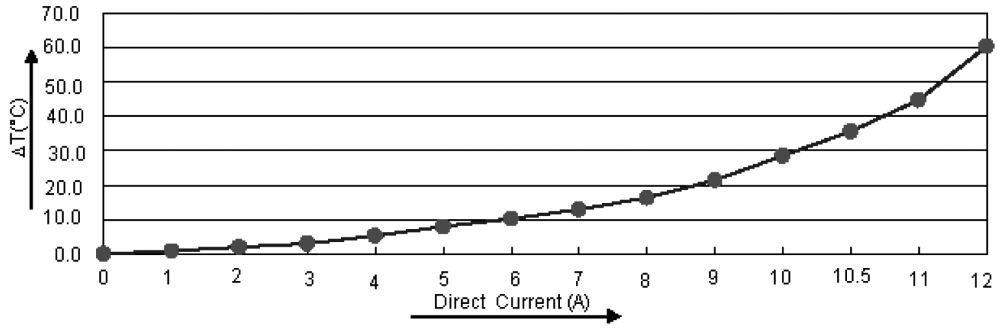
Test Item	L µH	DCR mΩ	ΔT
Condition	10kHz / 5mA	at 25°C	10kHz / 5mA Irms = 10.5A (Max.)
Specification	380 ±20%	60 (Max.)	Temperature rise 40°C (Max.)
1	352.89	61.22	OK
2	350.77	60.02	
3	349.64	60.09	
4	359.38	60.3	
5	354.16	61.04	
Average	**353.37**	**60.53**	**OK**

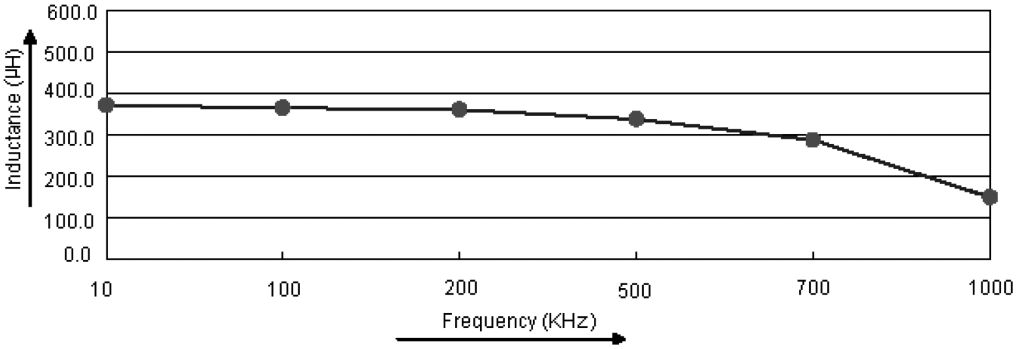
Material List

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

Electric Characteristics







Part Number Table

Description	Part Number
Inductor, 380μH, 20%, 2 Pins	MCAP115018062A-381MU