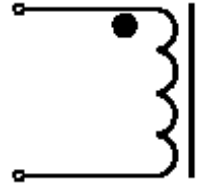


**RoHS
Compliant**



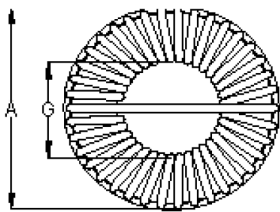
Schematic Diagram



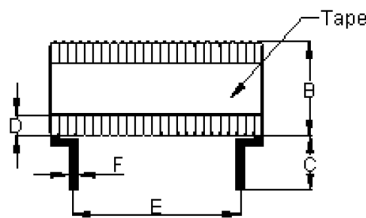
Note:

1. Wire UEFN/U (155°C) Ø0.8mm
2. 40TS (Reference) C.W

Configurations and Dimensions



Front View



Side View

A	27mm (Max.)
B	16.6mm (Max.)
C	10 ±3mm
D	0mm (Min.)
E	21.8 ±2 mm
F	Ø0.8mm (Ref.)
G	8.8mm (Min.)

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm	G mm
Specification	27 (Max.)	16.6 (Max.)	10 ±3	0 (Min.)	21.8 ±2	Ø0.8 (Ref.)	8.8 (Min.)
1	25.75	11.58	10.18	0.23	22.1	0.8	11.75
2	25.65	11.48	10.22	0.26	21.91	0.79	11.55
3	25.51	11.5	10.61	0.34	22.13	0.81	11.68
4	25.77	11.54	10.46	0.16	22.16	0.8	11.24
5	25.6	11.61	10.53	0.2	21.96	0.79	11.3
Average	25.66	11.54	10.4	0.24	22.05	0.8	11.5

Material List

No.	Item	Material Description
1	Core	T90-75H-TAF200 (Green/Blue)
2	Wire	Ø0.8mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%
4	Tape	9mm (W) × 2TS Yellow Mylar

Electrical Characteristics

Test Condition		
10kHz / 0.25V	L	100µH ±20%
T _A = 25°C	DCR	65mΩ (Max.)
10kHz / 0.25V I _{rms} = 4.3A	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

Test Data for Electrical

Test Item	L μH	DCR mΩ	ΔT
Condition	10kHz / 0.25V	T _A = 25°C	10kHz / 0.25V I _{rms} = 4.3A
Specification	100 ±20%	65 (Max.)	Temperature rise 40°C (Max.)
1	99.04	45.02	OK
2	97.7	45.15	
3	100.89	44.94	
4	100.67	45.13	
5	101.71	45.41	
Average	100	45.13	OK

Part Number Table

Description	Part Number
Inductor, 100μH, 20%, 2 Pins	MCAP109020040K-101MU

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