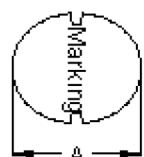


RoHS
Compliant

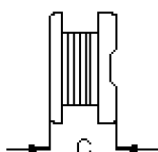


Marking : 102

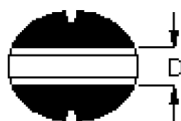
Configurations and Dimensions



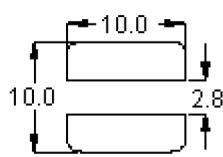
Top View



Side View



Bottom View



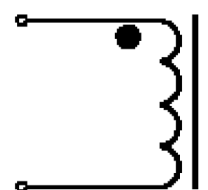
Suggest PCB Layout

Dimensions : Millimetres

Test Data for Mechanical

Test Item	A mm	C mm	D mm
Specification	9.8 (Max.)	5.8 (Max.)	2.9 (Ref.)
1	9.56	5.54	2.81
2	9.54	5.61	2.83
3	9.52	5.57	2.79
4	9.49	5.53	2.76
5	9.51	5.58	2.84
Average	9.52	5.57	2.81

Schematic Diagram



Note:

- (1) Wire Ø0.17mm × 1P 2UEF1/U 155°C
- (2) 147.5TS (Reference)

Electrical Characteristics

Test Condition		
1kHz 1V	L	1µH ±10%
at 25°C	DCR	3.1Ω (Max)
1kHz 1V I _{rms} = 0.23A	ΔT	Temperature rise 40°C (Max.)

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

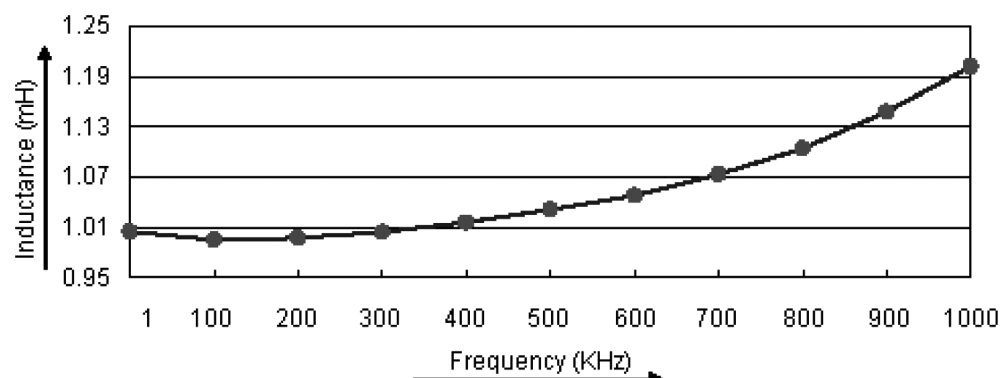
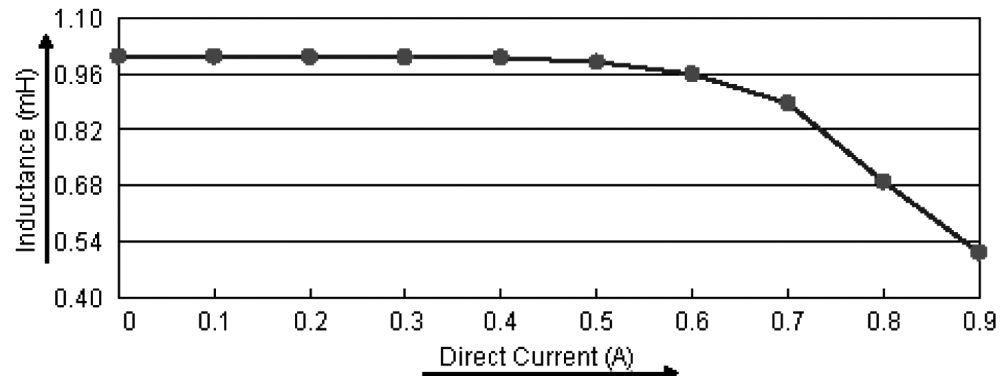
Material List

No.	Item	Material Description
1	Core	K22 DRM 9.5 × 5.5 RB-R B = 4.5 F = 3
2	Wire	Ø0.17mm × 1P 2UEF1/U (155°C)
3	Solder (Lead Free)	Sn99.3% / Cu0.7%

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 ±20% Inductance change : Within ±20%	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

Electric Characteristics



Test Data for Electrical

Test Item	L mH	DCR Ω	ΔT
Condition	1kHz 1V	at 25°C	1kHz 1V Irms = 0.23A
Specification	1 ±20%	3.1 (Max.)	Temperature rise 40°C (Max.)
1	0.99	2.37	OK
2	1	2.38	
3			
4	0.99	2.39	
5		2.37	
Average	0.99	2.38	OK

Part Number Table

Description	Part Number
Inductor, 1000μH, 10%, SMD	MCSDC1006-102KU

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