Inductor



RoHS Compliant



Specifications:

Inductance : 47µH : ± 10% Inductance Tolerance DC Resistance Max : 0.6Ω DC Current Rating : 600mA Self Resonant Frequency : 14MHz Inductor Case Style : SMD No. of Pins : 2 Lead Spacing : 2mm Core Material : Ferrite External Depth : 4.8mm External Length / Height : 3mm External Width : 5mm Resonant Frequency : 1kHz Series : SDC503

Electrical Characteristics (at 25°C)

1kHz 1V	L	47μH ± 10%
at 25°C	DCR	0.6Ω (Max.)
1kHz 1V Irms = 0.6A	ΔΤ	Temperature Rise 40°C (Max.)

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

Material List

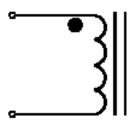
No.	Item	Material Description
1	Core	K22 DRM 5.6 × 3.6 RB-R B2.2 F1.5
2	Wire	Ø0.15mm × 1P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%



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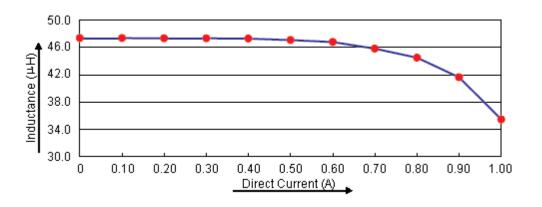
Schematic Diagram

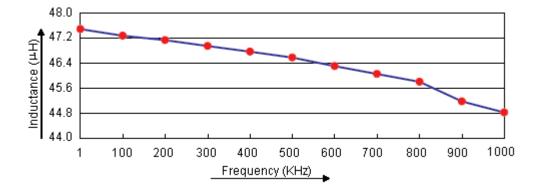


Note:

- 1. Wire Ø0.15mm × 1P 2UEF1/U 155°C
- 2. 42.5TS (Reference)

Electric Characteristics





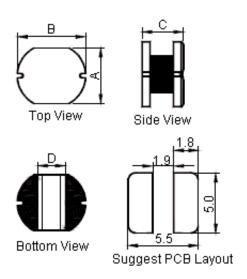
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Configurations and Dimensions



Α	4.8 ±0.5mm	-
В	5 ±0.3mm	-
С	3 ±0.3mm	-
D	2mm	(Reference)

Dimensions: Millimetres

Part Number Table

Description	Part Number
Inductor, 47µH, 10%, SMD	MCSDC0503-470KU

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