

RoHS
Compliant



Specifications:

Inductance	: 47 μ H
Inductance Tolerance	: $\pm$ 10%
DC Resistance Max	: 0.6 Ω
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)

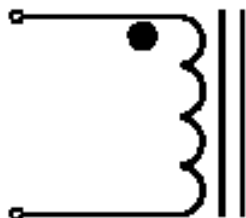
1kHz 1V	L	47 μ H $\pm$ 10%
at 25°C	DCR	0.6 Ω (Max.)
1kHz 1V I _{rms} = 0.6A	Δ T	Temperature Rise 40°C (Max.)

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

Material List

No.	Item	Material Description
1	Core	K22 DRM 5.6 $\times$ 3.6 RB-R B2.2 F1.5
2	Wire	$\varnothing$ 0.15mm $\times$ 1P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

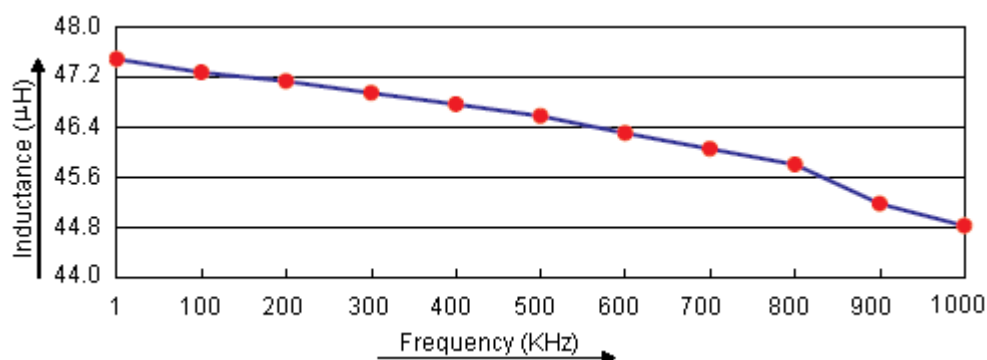
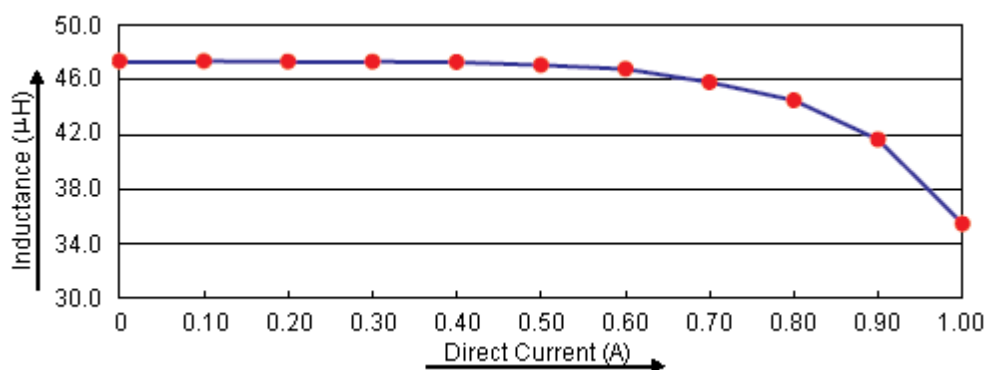
Schematic Diagram



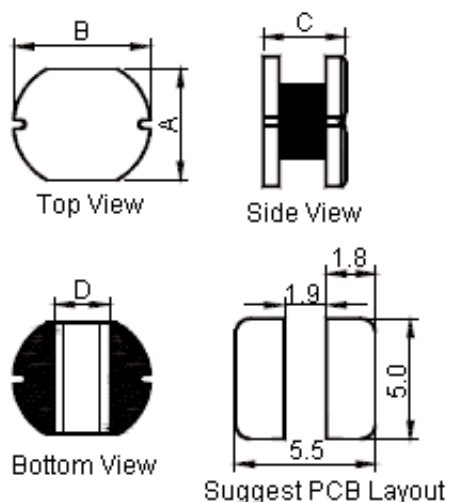
Note:

1. Wire $\varnothing 0.15\text{mm} \times 1\text{P 2UEF1/U } 155^{\circ}\text{C}$
2. 42.5TS (Reference)

Electric Characteristics



Configurations and Dimensions



A	4.8 ±0.5mm	-
B	5 ±0.3mm	-
C	3 ±0.3mm	-
D	2mm	(Reference)

Dimensions : Millimetres

Part Number Table

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

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