



Specifications:

Inductance	: 680 μ H
Inductance Tolerance	: $\pm$ 10%
DC Resistance Max	: 7.5 Ω
DC Current Rating	: 140mA
Self Resonant Frequency	: 4MHz
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	: MCSDC503

Electrical Characteristics (at 25°C)

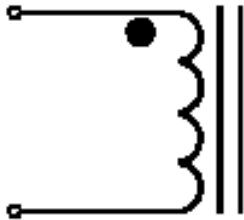
1kHz 1V	L	680 μ H $\pm$ 10%
at 25°C	DCR	7.5 Ω (Max.)
1kHz 1V I _{rms} = 0.14A	Δ T	Temperature Rise 40°C (Max.)

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

Material List

No.	Item	Material Description
1	Core	R5A CDR5 $\times$ 3 (ST) B2 F1.5
2	Wire	$\varnothing$ 0.08mm $\times$ 1P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%
4	Glue	TH320

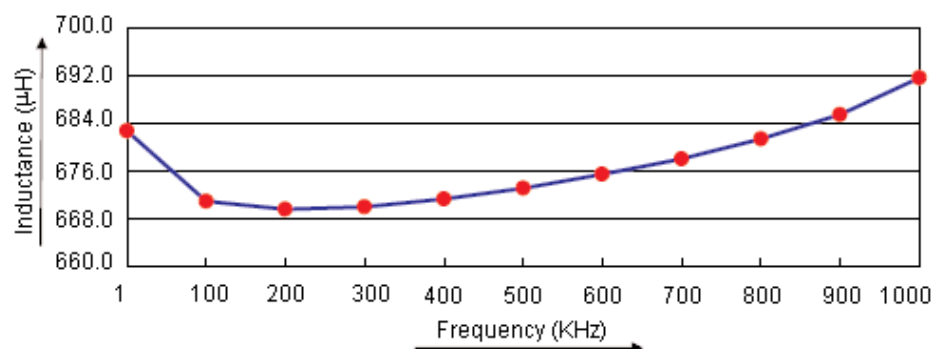
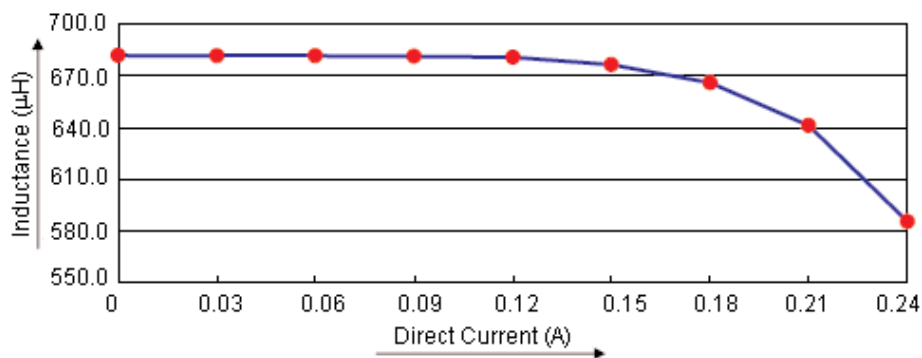
Schematic Diagram



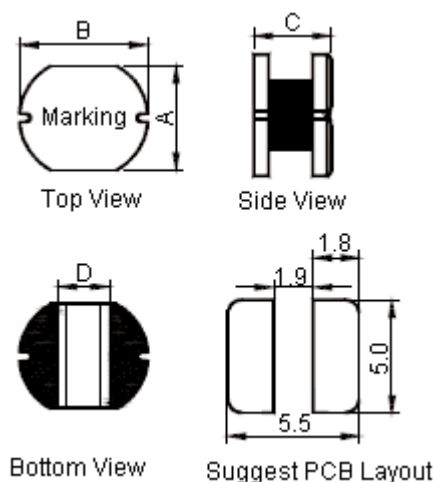
Note:

1. Wire $\varnothing 0.08\text{mm} \times 1\text{P } 2\text{UEF1/U } 155^{\circ}\text{C}$
2. 166.5TS (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, 680µH, 10%, SMD	MCSDC0503-681KU

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