



Specifications:

Inductance	: 10 μ H
Inductance Tolerance	: $\pm$ 20%
DC Resistance Max	: 0.13 Ω
DC Current Rating	: 1.3A
Self Resonant Frequency	: 30MHz
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
Series	: SDC503
Operating Temperature	: -55°C to +130°C

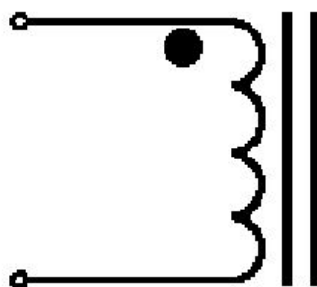
Electrical Characteristics

100kHz 1V	Inductance (L)	10 μ H $\pm$ 20%
at 25°C	DC Resistance (DCR)	130m Ω (max.)

Material List

No	Item	Material Description
1	Core	R5A CDR5 $\times$ 3(ST) B2 F1.5
2	Wire	$\varnothing$ 0.23mm $\times$ 1P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

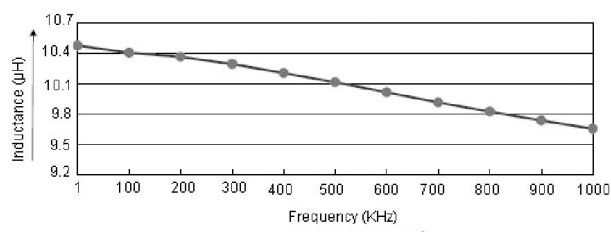
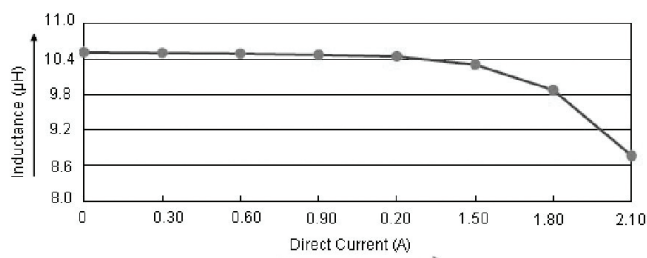
Schematic Diagram



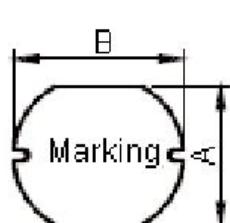
Note:

- (1) Wire $\varnothing$ 0.23mm $\times$ 1P 2UEF1/U 155°C
- (2) 20.5TS(REF)

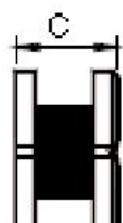
Electric Characteristics:



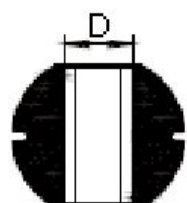
Configurations and Dimensions



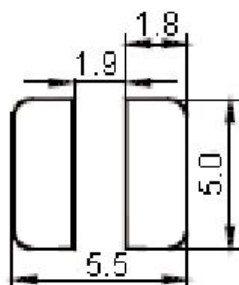
Top View



Side View



Bottom View



Suggest PCB Layout

Dimensions : Millimetres

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

Marking: 100

Part Number Table

Description	Part Number
Inductor, 10μH, 20%, SMD	MCSDC0503-100MU

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