



Specifications:

Inductance	: 10µH
Inductance Tolerance	: ± 20%
DC Resistance Max	: 0.13Ω
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

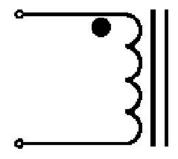
Electrical Characteristics

100Khz 1V	Inductance (L)	10µH ±20%
at 25°C	DC Resistance (DCR)	130mΩ (max.)

Material List

No	ltem	Material Description
1	Core	R5A CDR5 × 3(ST) B2 F1.5
2	Wire	Ø0.23mm × 1P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

Schematic Diagram



Note:

(1) Wire Ø0.23mm × 1P 2UEF1/U 155°C (2) 20.5TS(REF)

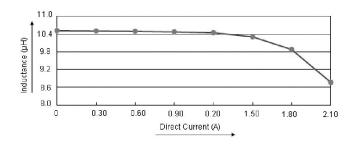
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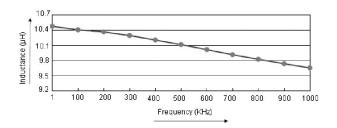


Inductor

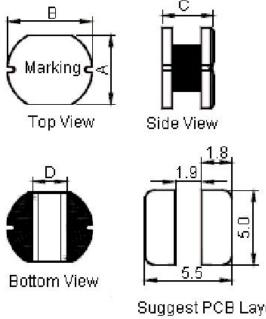


Electric Characteristics:





Configurations and Dimensions



Dimensions : Millimetres

Suggest PCB Layout

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

Part Number Table

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

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