# Inductor







## **Specifications:**

Inductance : 470µH Inductance Tolerance : ± 10% DC Resistance Max : 4.9Ω DC Current Rating : 180mA Self Resonant Frequency : 5MHz Inductor Case Style : SMD No. of Pins : 2 Lead Spacing : 2mm Core Material : Ferrite : 4.8mm External Depth : 3mm External Length / Height External Width : 5mm Resonant Frequency : 1kHz Series : MCSDC503

## **Electrical Characteristics (at 25°C)**

1kHz 1V	L	470µH ± 10%
at 25°C	DCR	4.9Ω (Max.)
1kHz 1V Irms = 0.18A	ΔΤ	Temperature Rise 40°C (Max.)

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

### **Material List**

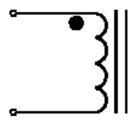
No.	Item	Material Description
1	Core	R5A CDR5 × 3 (ST) B2 F1.5
2	Wire	Ø0.09mm × 1P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%
4	Glue	TH320



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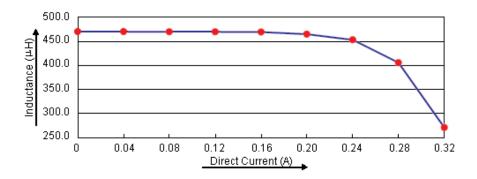
# **Schematic Diagram**

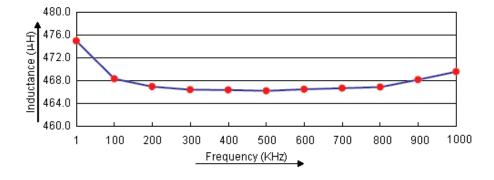


#### Note:

- 1. Wire Ø0.09mm × 1P 2UEF1/U 155°C
- 2. 138.5TS (Reference)

### **Electric Characteristics**

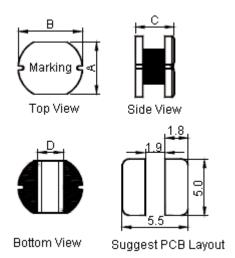




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# **Configurations and Dimensions**



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

Dimensions: Millimetres

#### **Part Number Table**

Description	Part Number
Inductor, 470µH, 10%, SMD	MCSDC0503-471KU

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