# Inductor







## **Specifications:**

Inductance : 56µH Inductance Tolerance : ± 10% DC Resistance Max : 0.937Ω DC Current Rating : 500mA Inductor Case Style : SMD No. of Pins Lead Spacing : 1mm Core Material : Ferrite External Depth : 4mm External Length / Height : 3.2mm External Width : 4.5mm Resonant Frequency : 100kHz Series : MCSD43

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

100kHz 0.25V	L	56μH ±10%
at 25°C	DCR	0.937Ω (Max.)
100kHz 0.25V Irms = 0.42A	ΔΤ	Temperature Rise 40°C (Max.)

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

#### **Material List**

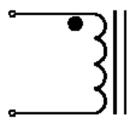
No.	Item	Material Description
1	Core	R5A CDR4.5 × 3.2(ST) B2.0 F1.5
2	Wire	Ø0.12mm × 1P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3% / Cu0.7%



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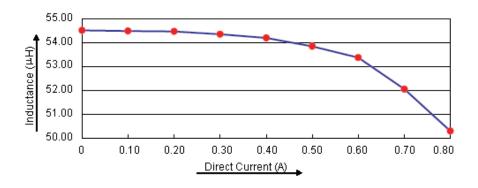
# **Schematic Diagram**

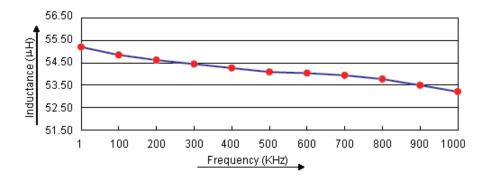


#### Note:

- 1. Wire Ø0.12mm × 1P 2UEWF 155°C
- 2. 49.5TS (Reference)

### **Electric Characteristics**



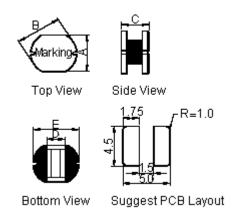




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### **Configurations and Dimensions**



Α	4 ±0.3mm	-
В	4.5 ±0.3mm	-
С	3.2 ±0.3mm	-
D	1mm	(Reference)
E	4.5 ±0.5mm	-

Dimensions: Millimetres

#### **Part Number Table**

Description	Part Number
Inductor, 56µH, 500mA, 10%	MCSD43-560KU

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