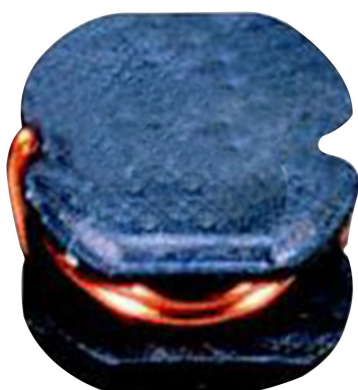


RoHS
Compliant



Specifications:

Inductance	: 56 μ H
Inductance Tolerance	: \pm 10%
DC Resistance Max	: 0.937 Ω
DC Current Rating	: 500mA
Inductor Case Style	: SMD
No. of Pins	: 2
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)

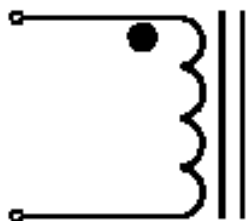
100kHz 0.25V	L	56 μ H \pm 10%
at 25°C	DCR	0.937 Ω (Max.)
100kHz 0.25V I _{rms} = 0.42A	ΔT	Temperature Rise 40°C (Max.)

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

Material List

No.	Item	Material Description
1	Core	R5A CDR4.5 \times 3.2(ST) B2.0 F1.5
2	Wire	\varnothing 0.12mm \times 1P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3% / Cu0.7%

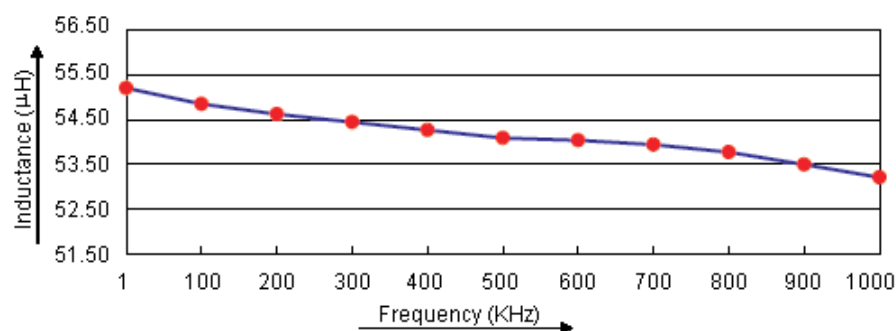
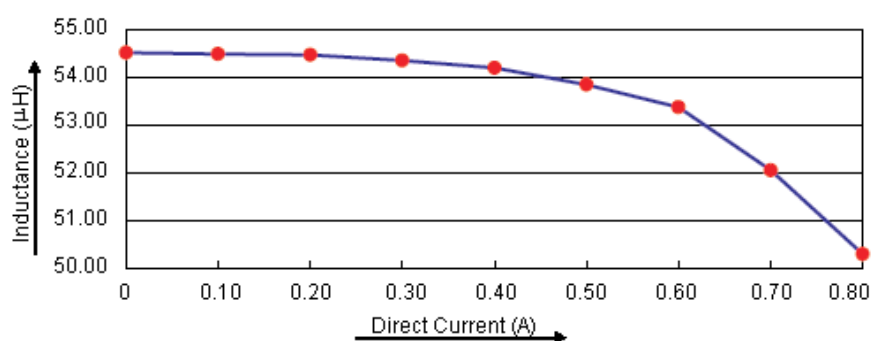
Schematic Diagram



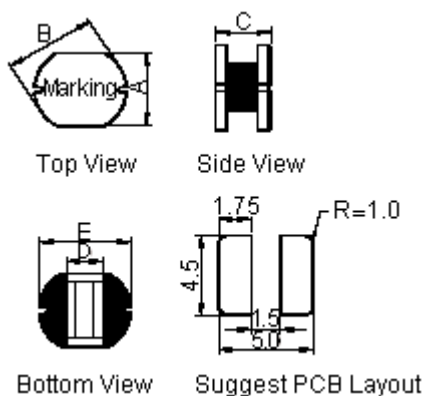
Note:

1. Wire $\varnothing 0.12\text{mm} \times 1\text{P 2UEWF } 155^{\circ}\text{C}$
2. 49.5TS (Reference)

Electric Characteristics



Configurations and Dimensions



A	4 ±0.3mm	-
B	4.5 ±0.3mm	-
C	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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