

## Specifications:

Inductance	: 68 $\mu$ H
Inductance Tolerance	: $\pm$ 10%
DC Resistance Max	: 1.117 $\Omega$
DC Current Rating	: 460mA
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)

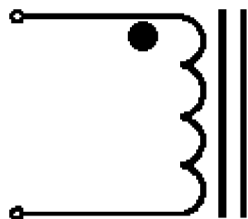
100kHz 0.25V	L	68 $\mu$ H $\pm$ 10%
at 25°C	DCR	1.117m $\Omega$ (Max.)
100kHz 0.25V I <sub>rms</sub> = 0.37A	$\Delta$ T	Temperature Rise 40°C (Max.)

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

## Material List

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

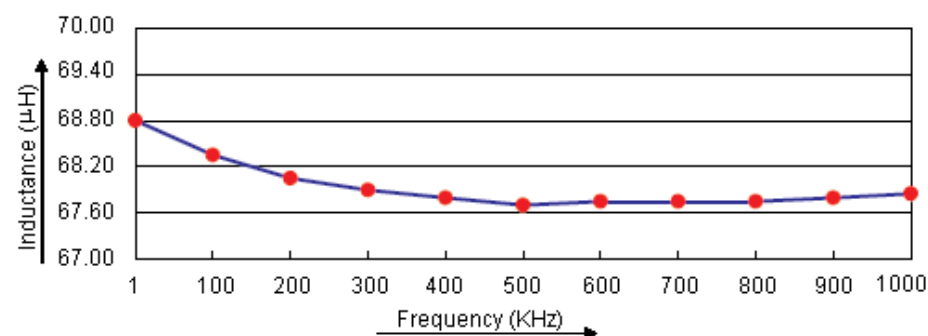
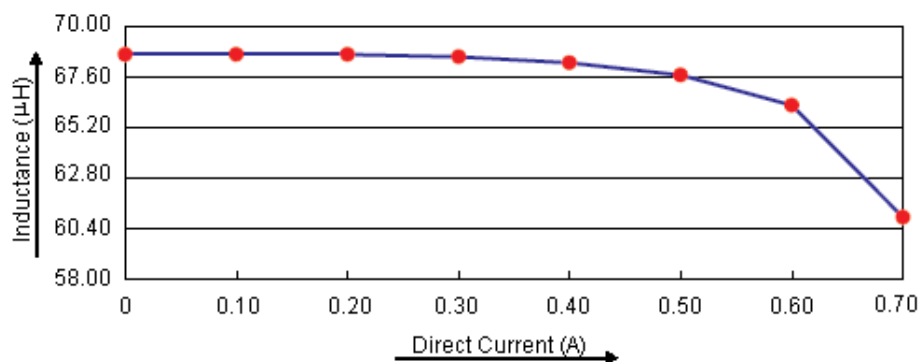
## Schematic Diagram



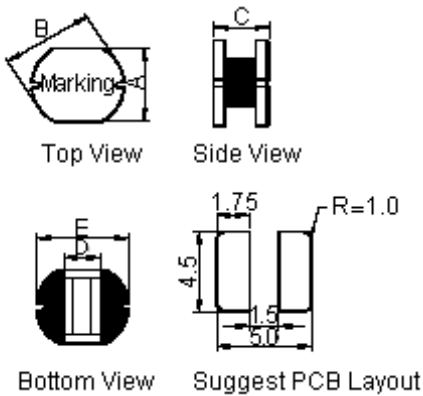
### Note:

1. Wire  $\varnothing 0.12\text{mm} \times 1\text{P } 2\text{UEWF } 155^\circ\text{C}$
2. 56.5TS (Reference)

## Electric Characteristics



## Configurations and Dimensions



A	$4 \pm 0.3\text{mm}$	-
B	$4.5 \pm 0.3\text{mm}$	-
C	$3.2 \pm 0.3\text{mm}$	-
D	1mm	(Reference)
E	$4.5 \pm 0.5\text{mm}$	-

Dimensions : Millimetres

## Part Number Table

Description	Part Number
Inductor, 68 $\mu\text{H}$ , 460mA, 10%	MCSD43-680KU

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