

RoHS  
Compliant



### Specifications:

Inductance	: 56 $\mu$ H
Inductance Tolerance	: $\pm$ 10%
DC Resistance Max	: 0.19 $\Omega$
DC Current Rating	: 1.15A
Self Resonant Frequency	: 7.5MHz
Inductor Case Style	: SMD
No. of Pins	: 2
Lead Spacing	: 2.8mm
Core Material	: Ferrite
External Depth	: 9.8mm
External Length / Height	: 5.8mm
External Width	: 9.8mm
Resonant Frequency	: 1kHz
Series	: MCSDC1006

### Electrical Characteristics (at 25°C)

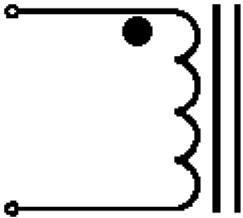
1kHz 1V	L	56 $\mu$ H $\pm$ 10%
at 25°C	DCR	190m $\Omega$ (Max.)
1kHz 1V I <sub>rms</sub> = 1.15A	$\Delta$ T	Temperature Rise 40°C (Max.)

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

### Material List

No.	Item	Material Description
1	Core	K22 DRM 9.5 $\times$ 5.5 RB-R B = 4.5 F = 3
2	Wire	$\varnothing$ 0.33mm $\times$ 1P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

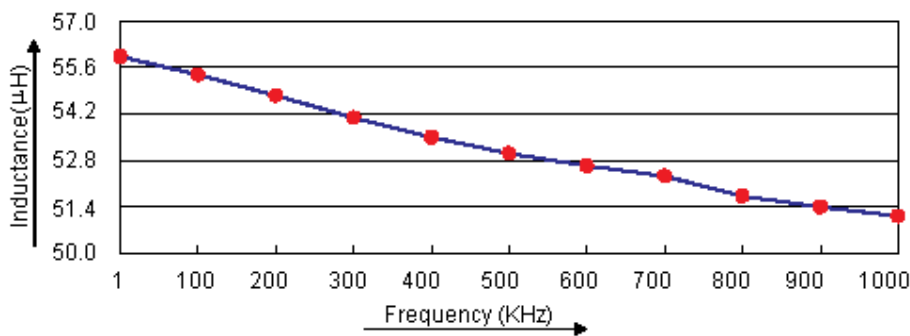
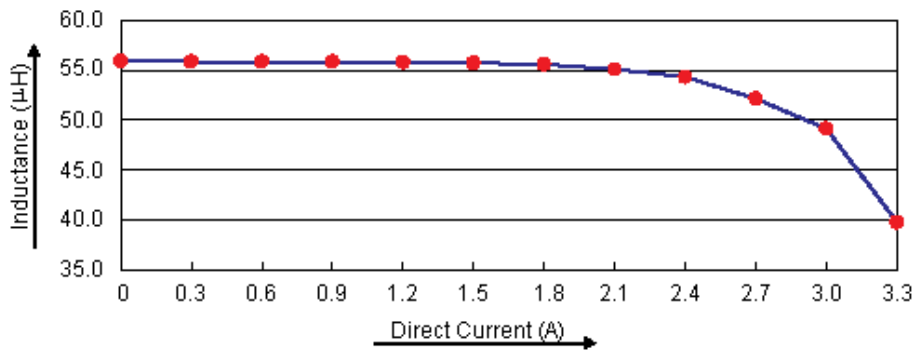
## Schematic Diagram



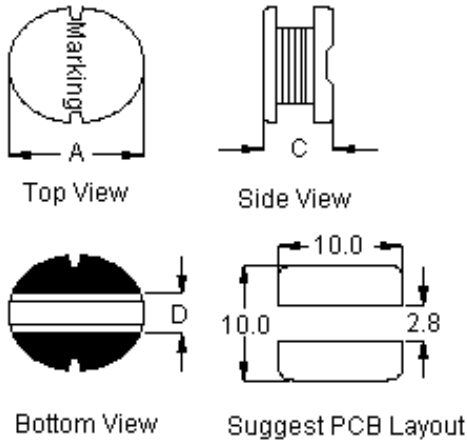
### Note:

1. Wire  $\varnothing 0.33\text{mm} \times 1\text{P } 2\text{UEF1/U } 155^\circ\text{C}$
2. 34.5TS (Reference)

## Electric Characteristics



## Configurations and Dimensions



A	9.8mm	(Maximum)
C	5.8mm	(Maximum)
D	2.9mm	(Reference)

Dimensions : Millimetres

## Part Number Table

Description	Part Number
Inductor, 56 $\mu$ H, $\pm$ 10%, SMD	MCSDC1006-560KU

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