

RoHS  
Compliant



## Specifications:

Inductance	: 12 $\mu$ H
Inductance Tolerance	: $\pm$ 20%
DC Resistance Max	: 0.07 $\Omega$
DC Current Rating	: 2.45A
Self Resonant Frequency	: 20MHz
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)

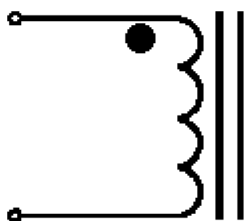
1kHz 1V	L	12 $\mu$ H $\pm$ 20%
at 25°C	DCR	70m $\Omega$ (Max.)
1kHz 1V I <sub>rms</sub> = 2.45A	$\Delta$ T	Temperature Rise 40°C (Max.)

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	$\varnothing$ 0.3mm $\times$ 2P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

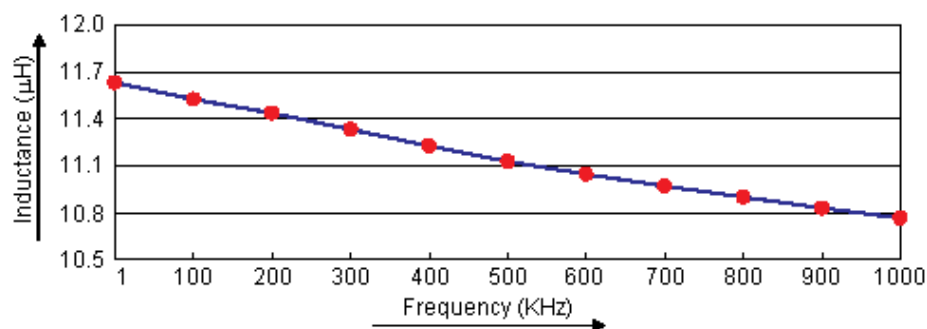
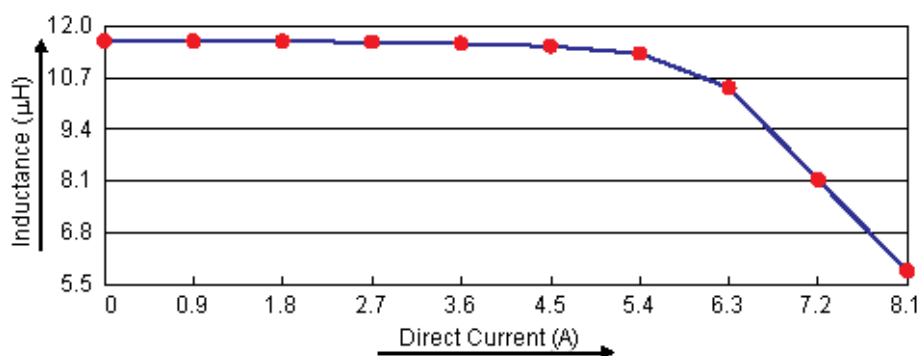
## Schematic Diagram



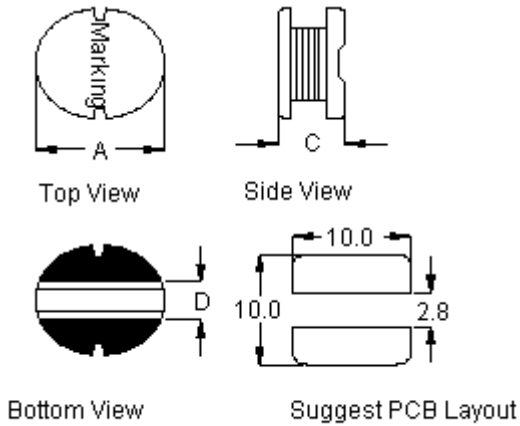
### Note:

1. Wire  $\varnothing 0.3\text{mm} \times 2\text{P 2UEF1/U } 155^\circ\text{C}$
2. 15.5TS (Reference)

## Electric Characteristics



## Configurations and Dimensions



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

Dimensions : Millimetres

## Part Number Table

Description	Part Number
Inductor, 12 $\mu$ H, 20%, SMD	MCSDC1006-120MU

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