

RoHS  
Compliant



### Specifications:

Inductance	: 10 $\mu$ H
Inductance Tolerance	: $\pm$ 20%
DC Resistance Max	: 0.07 $\Omega$
DC Current Rating	: 2.3A
Self Resonant Frequency	: 22MHz
Inductor Case Style	: SMD
No. of Pins	: 2
Lead Spacing	: 2.6mm
Core Material	: Ferrite
External Depth	: 7.8mm
External Length / Height	: 5.3mm
External Width	: 8mm
Resonant Frequency	: 1kHz
Series	: MCSDC0805

### Electrical Characteristics (at 25°C)

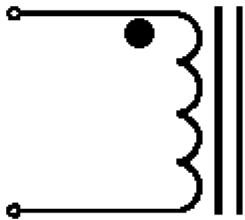
1kHz 1V	L	10 $\mu$ H $\pm$ 20%
at 25°C	DCR	70m $\Omega$ (Max.)
1kHz 1V I <sub>sat</sub> = 3.2A	L at I <sub>sat</sub>	L drops 35% (Maximum)
1kHz 1V I <sub>rms</sub> = 2.3A	$\Delta$ T	Temperature Rise 40°C (Max.)

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

### Material List

No.	Item	Material Description
1	Core	R5A CDR7.5 $\times$ 5 (ST) B3.4 F2.5
2	Wire	$\varnothing$ 0.35mm $\times$ 1P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

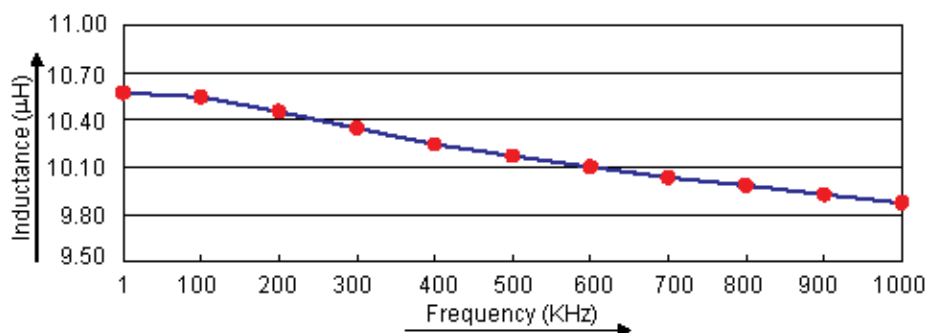
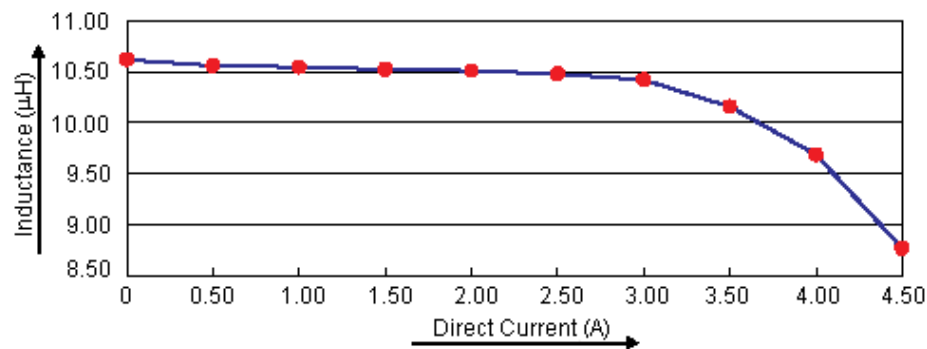
## Schematic Diagram



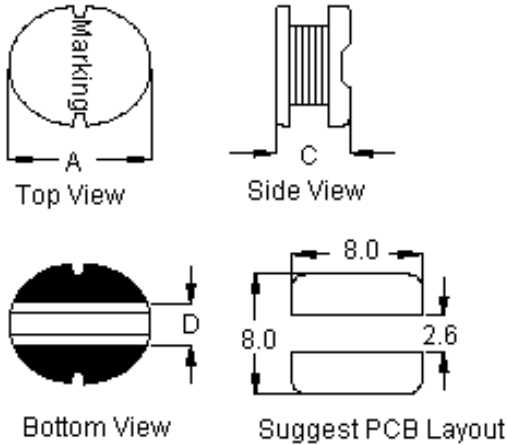
### Note:

1. Wire  $\varnothing 0.35\text{mm} \times 1\text{P } 2\text{UEWF155}^\circ\text{C}$
2. 16.5TS (Reference)

## Electric Characteristics



## Configurations and Dimensions



A	7.8mm	(Maximum)
B	5.3mm	(Maximum)
C	2.6mm	(Reference)

Dimensions : Millimetres

## Part Number Table

Description	Part Number
Inductor, 10 $\mu$ H, 20%, SMD	MCSDC0805-100MU

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