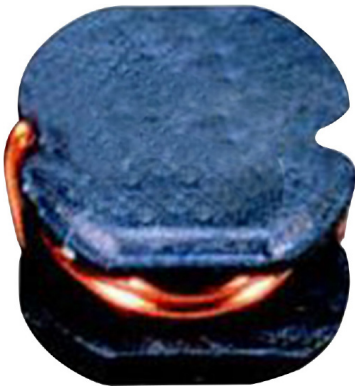


RoHS  
Compliant



### Specifications:

Inductance	: 27 $\mu$ H
Inductance Tolerance	: $\pm$ 20%
DC Resistance Max	: 0.2 $\Omega$
DC Current Rating	: 970mA
Inductor Case Style	: SMD
No. of Pins	: 2
Lead Spacing	: 2mm
Core Material	: Ferrite
External Depth	: 5.2mm
External Length / Height	: 4.5mm
External Width	: 5.8mm
Resonant Frequency	: 100kHz
Series	: MCSD54

### Electrical Characteristics (at 25°C)

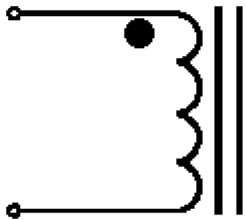
100kHz 0.25V	L	27 $\mu$ H $\pm$ 20%
at 25°C	DCR	200m $\Omega$ (Max.)
100kHz 0.25V I <sub>rms</sub> = 0.97A	$\Delta$ T	Temperature Rise 40°C (Max.)

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

### Material List

No.	Item	Material Description
1	Core	R5A CDR5.8 $\times$ 4.5(ST) B2.4 F2.3
2	Wire	$\varnothing$ 0.25mm $\times$ 1P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

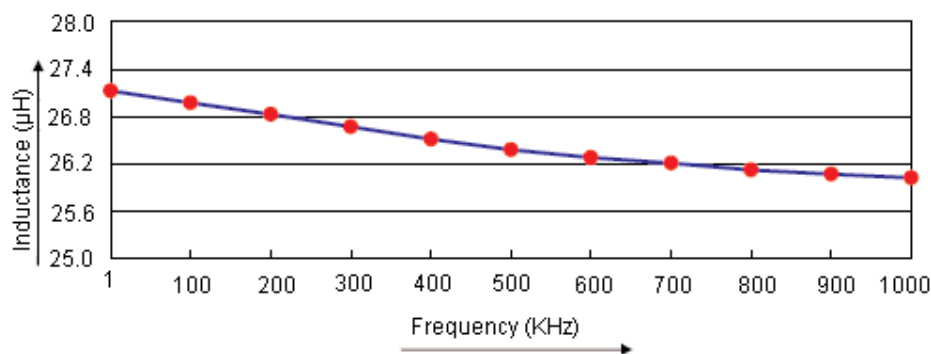
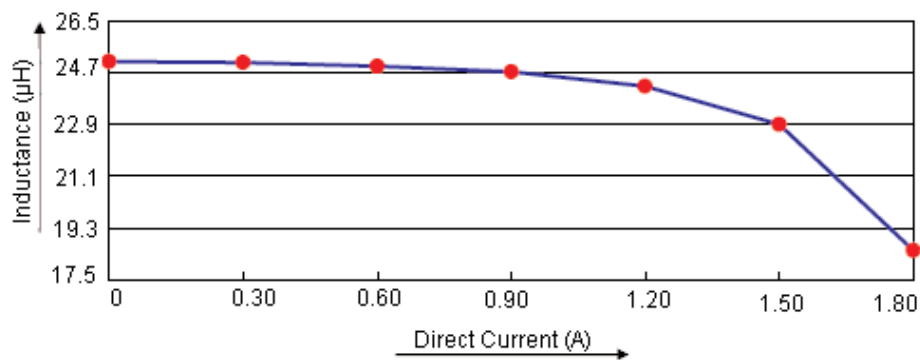
## Schematic Diagram



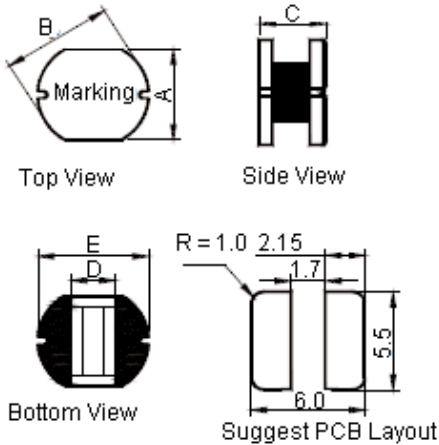
### Note:

1. Wire  $\varnothing 0.25\text{mm} \times 1\text{P } 2\text{UEWF } 155^\circ\text{C}$
2. 31.5TS (Reference)

## Electric Characteristics



## Configurations and Dimensions



A	5.2 ±0.3mm	-
B	5.8 ±0.3mm	-
C	4.5 ±0.35mm	-
D	2mm	(Reference)
E	5.8 ±0.5mm	-

Dimensions : Millimetres

## Part Number Table

Description	Part Number
Inductor, 27µH, 20%, SMD	MCSD54-270MU

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