

RoHS  
Compliant



## Specifications:

Inductance	: 2.7 $\mu$ H
Inductance Tolerance	: $\pm$ 20%
DC Resistance Max	: 4,300 $\mu\Omega$
DC Current Rating	: 17A
Inductor Case Style	: SMD
No. of Pins	: 2
Lead Spacing	: 3mm
External Depth	: 12.6mm
External Length / Height	: 4.6mm
External Width	: 12.6mm
Resonant Frequency	: 300kHz
Series	: SC

## Electrical Characteristics

300kHz 0.25V	L	2.7 $\mu$ H $\pm$ 20%
Ta 25°C	DCR	4.3m $\Omega$ $\pm$ 7%
300kHz 0.25V I <sub>rms</sub> = 15A (Max.)	L at I <sub>rms</sub>	2.22 $\mu$ H (Reference)
300kHz 0.25V I <sub>max</sub> = 24A (Maximum)	L at I <sub>max</sub>	1.93 $\mu$ H (Reference)

Operating temperature: -40°C to +150°C

### Note:

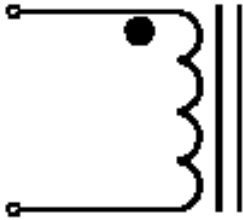
I<sub>rms</sub> : DC current rating at 50°C surface temperature raise (typical)

I<sub>max</sub> : DC current rating at 100°C surface temperature raise (typical)

## Material List

No.	Item	Material Description
1	Core	SMF430/105-SF56Q-GT; SPF120-SF56Q-GT
2	Wire	FW031240054505T5-A28
3	Winding	5.5TS
4	Taping	SC5015/SC5018 800 Pieces/Reel
5	Marking	2R7 YYWW

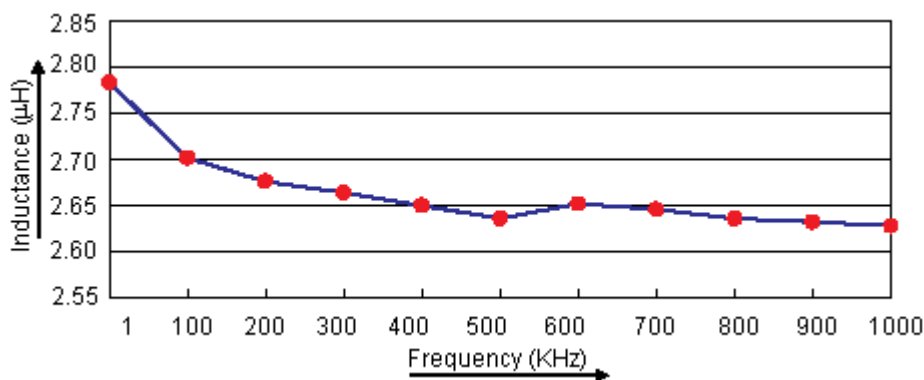
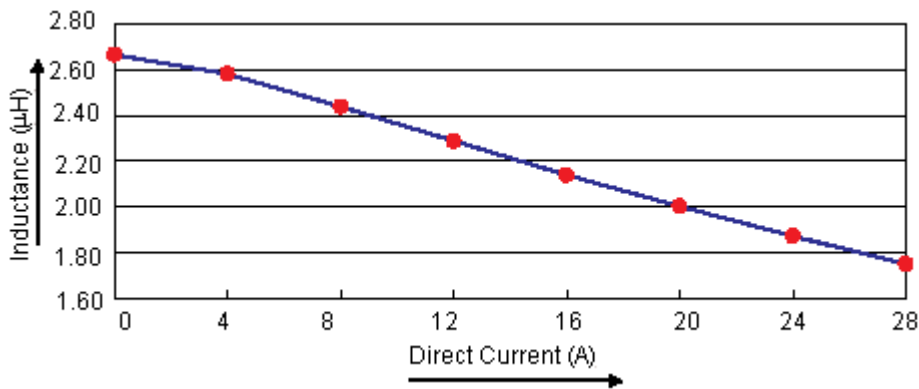
## Schematic Diagram



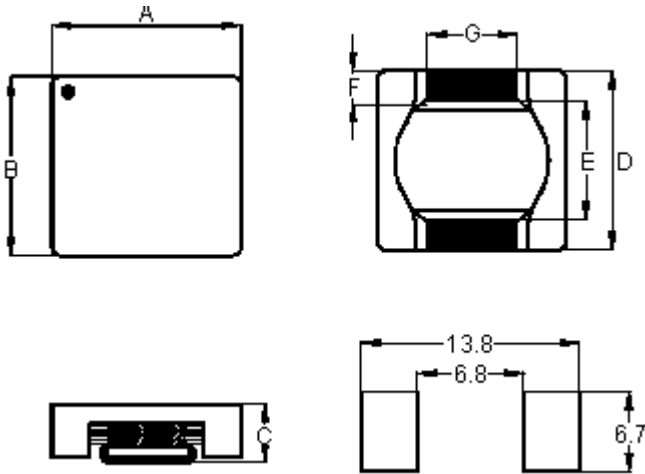
### Note:

1. Wire FW031240054505T5-A28
2. 5.5TS

## Electric Characteristics



## Configurations and Dimensions



A	12.6 ±0.4mm	-
B	12.6 ±0.4mm	-
C	4.6 ±0.4mm	-
D	12.7 ±0.4mm	-
E	7.6 ±0.4mm	-
F	2.4mm	Reference
G	5 ±0.4mm	-

1. The long pin is the beginning of winding. YYWW

Dimensions : Millimetres

## Part Number Table

Description	Part Number
Inductor, 2.7µH, 20%, 17A	MCSC5018-2R7MU

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