



Specifications:

Inductance	: 2.7 μ 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 μ H \pm 20%
Ta 25°C	DCR	4.3m Ω \pm 7%
300KHz 0.25V I _{rms} = 15A (Max.)	L at I _{rms}	2.22 μ H (Reference)
300KHz 0.25V I _{max} = 24A (Maximum)	L at I _{max}	1.93 μ H (Reference)

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

Note:

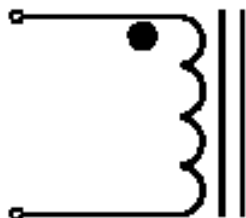
I_{rms} : DC current rating at 50°C surface temperature raise (typical)

I_{max} : 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

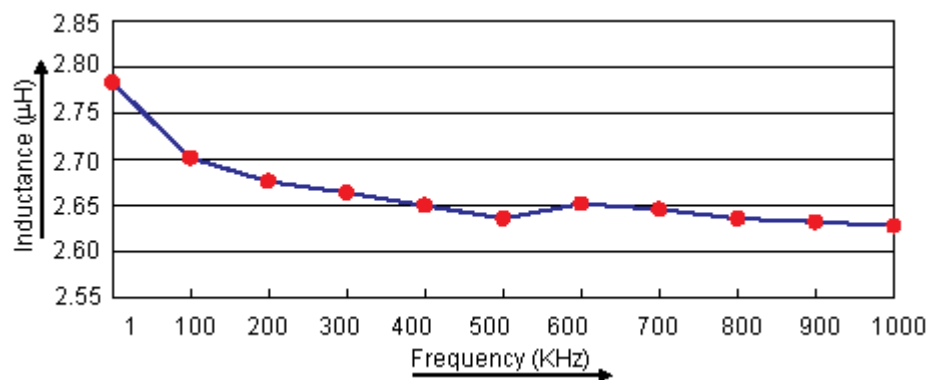
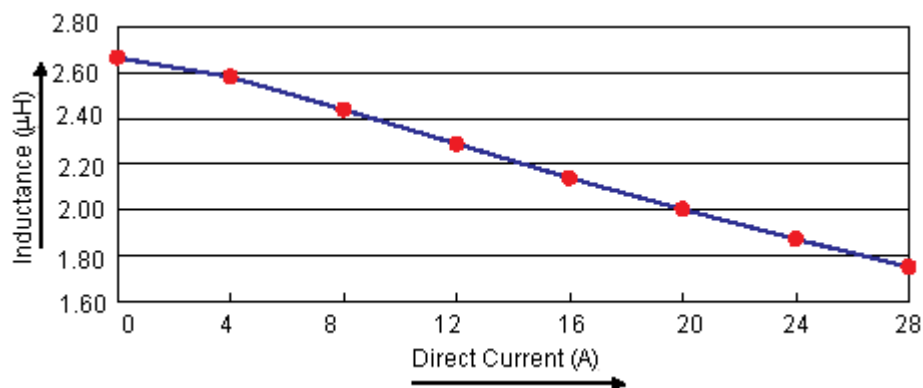
Schematic Diagram



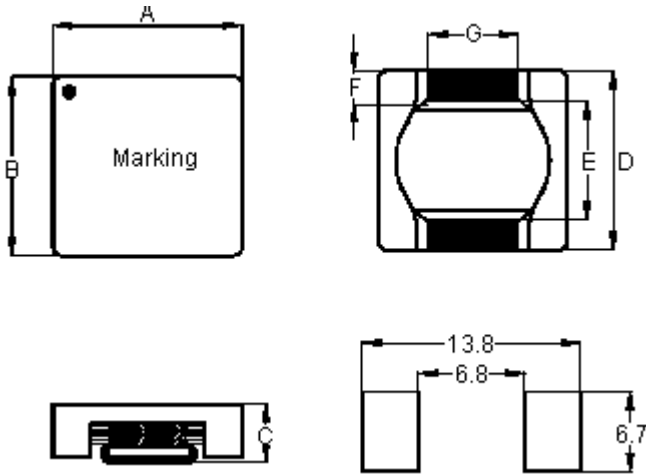
Note:

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	-

Marking: 2R7

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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