



Specifications:

Inductance	: 1.2 μ H
Inductance Tolerance	: $\pm$ 20%
DC Resistance Max	: 2,800 $\mu\Omega$
DC Current Rating	: 20A
Inductor Case Style	: SMD
No. of Pins	: 2
Lead Spacing	: 3mm
External Depth	: 12.6mm
External Length / Height	: 4.2mm
External Width	: 12.6mm
Resonant Frequency	: 300kHz
Series	: SC

Electrical Characteristics

300KHz 0.25V	L	1.2 μ H $\pm$ 20%
Ta 25°C	DCR	2.8m Ω $\pm$ 7%
300KHz 0.25V I _{rms} = 18.5A (Max.)	L at I _{rms}	1.035 μ H (Reference)
300KHz 0.25V I _{max} = 23.5A (Maximum)	L at I _{max}	0.976 μ H (Reference)

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

Note:

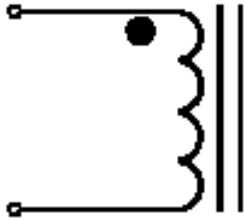
I_{rms} : DC current rating at 50°C surface temperature raise (typical)

I_{max} : DC current rating at 100°C surface temperature raise (typical)

Material List

No.	Item	Material Description
1	Core	SMF390/105-SF56Q-GT; SPF120-SF56Q-GT
2	Wire	FW031240054503T5-A28
3	Winding	3.5TS
4	Taping	SC5015/SC5018 800 Pieces/Reel
5	Marking	1R2 YYWW

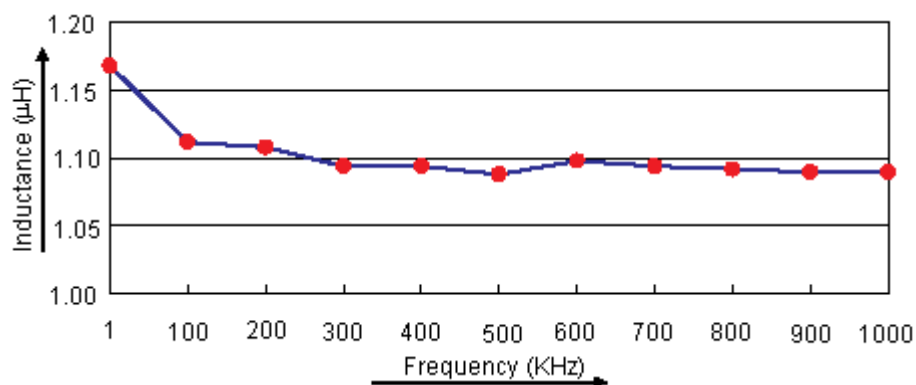
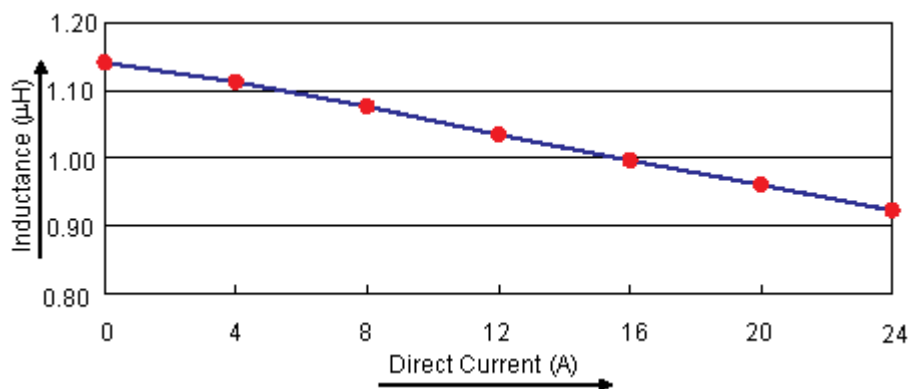
Schematic Diagram



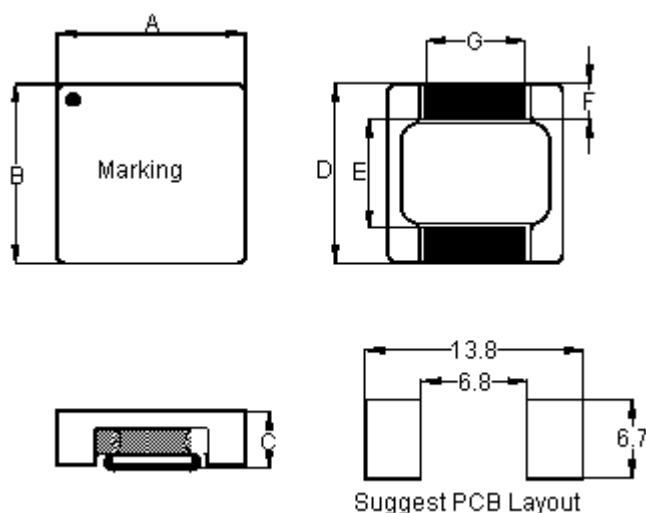
Note:

1. Wire FW031240054503T5-A28
2. 3.5TS

Electric Characteristics



Configurations and Dimensions



Dimensions : Millimetres

A	12.6 ±0.4mm	-
B	12.6 ±0.4mm	-
C	4.2 ±0.4mm	-
D	12.7 ±0.4mm	-
E	7.6 ±0.4mm	-
F	2.4mm	Reference
G	5 ±0.4mm	-

Marking: 1R2

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

Part Number Table

Description	Part Number
Inductor, 1.2µH, 20%, 20A	MCSC5015-1R2MU

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