



Specifications:

Inductance	: 2.5 μ H
Inductance Tolerance	: \pm 20%
DC Resistance Max	: 8,000 $\mu\Omega$
DC Current Rating	: 13A
Inductor Case Style	: SMD
No. of Pins	: 2
Lead Spacing	: 3mm
External Depth	: 10mm
External Length / Height	: 4mm
External Width	: 10mm
Resonant Frequency	: 300kHz
Series	: SC

Electrical Characteristics

300KHz 0.25V	L	2.5 μ H \pm 20%
Ta 25°C	DCR	8m Ω \pm 7%
300KHz 0.25V I _{rms} = 11.5A (Max.)	L at I _{rms}	2.08 μ H (Reference)
300KHz 0.25V I _{max} = 16.5A (Maximum)	L at I _{max}	1.85 μ H (Reference)

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

Note:

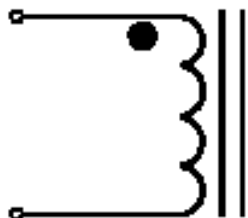
I_{rms} : DC current rating at 40°C surface temperature raise (typical)

I_{max} : DC current rating at 90°C surface temperature raise (typical)

Material List

No.	Item	Material Description
1	Core	SMX265/105-FC56-GT; SPX-A110-FC56-GT
2	Wire	FW019185040506T5-A18G
3	Winding	6.5TS
4	Taping	SC4015 800 Pieces/Reel
5	Glue	2R5 YYWW

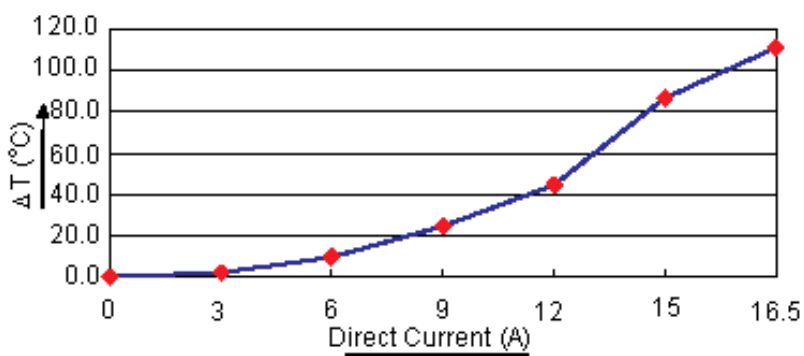
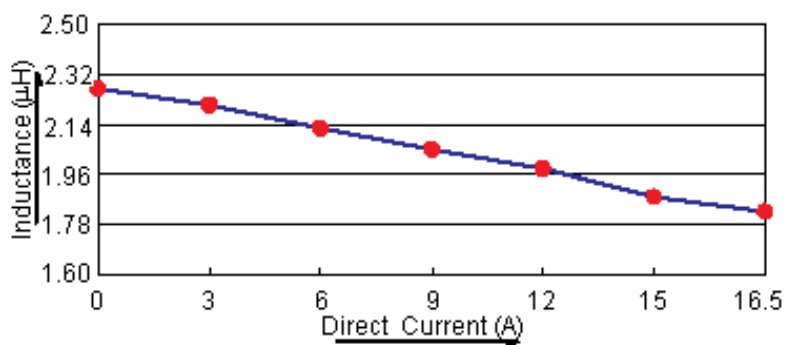
Schematic Diagram



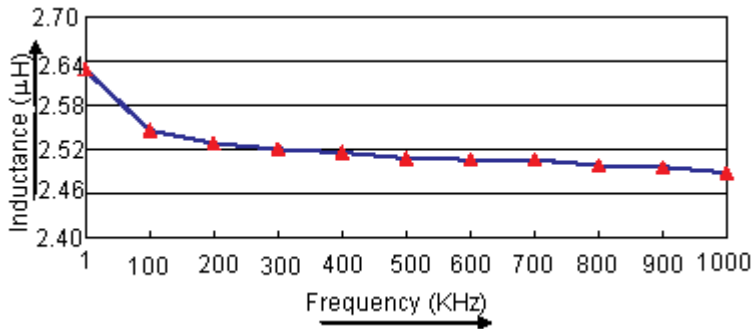
Note:

1. Wire FW019185040506T5-A18G
2. 6.5TS

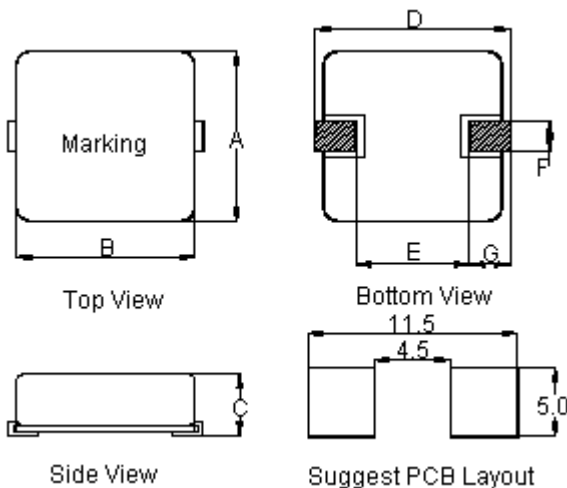
Electric Characteristics



Electric Characteristics



Configurations and Dimensions



A	1 ±0.4mm	-
B	1 ±0.4mm	-
C	4mm	Maximum
D	11mm	
E	5.6mm	Reference
F	2mm	
G	2.35mm	

Marking: 2R5

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

Dimensions : Millimetres

Part Number Table

Description	Part Number
Inductor, 2.5µH, 20%, 13A	MCSC4015-2R5MU

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