



### Specifications:

Inductance	: 390nH
Inductance Tolerance	: ± 20%
DC Resistance Max	: 1,360μΩ
DC Current Rating	: 22A
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	0.39μH ±20%
Ta 25°C	DCR	1.36mΩ ±7%
300KHz 0.25V I <sub>rms</sub> = 22A (Max.)	L at I <sub>rms</sub>	0.34μH (Reference)
300KHz 0.25V I <sub>max</sub> = 16.5A (Maximum)	L at I <sub>max</sub>	0.3μH (Reference)

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

#### Note:

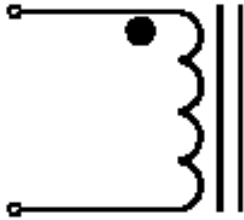
I<sub>rms</sub> : DC current rating at 40°C surface temperature raise (typical)

I<sub>max</sub> : DC current rating at 90°C surface temperature raise (typical)

### Material List

No.	Item	Material Description
1	Core	SMX250/105-SF56Q-GT; SPX145/090-SF56Q-GT
2	Wire	FW040200039002T5-A18
3	Winding	2.5TS
4	Taping	SC4015 800Pieces/Reel
5	Marking	R39 YYWW

## Schematic Diagram

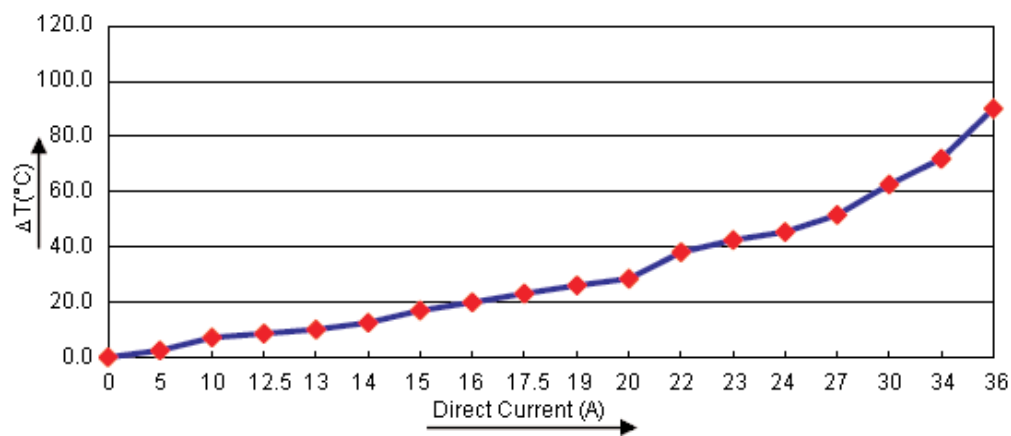
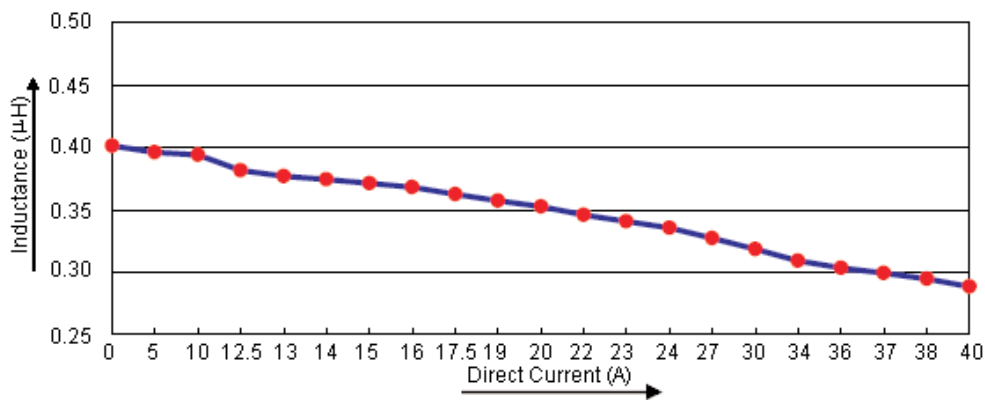


### Note:

1. Wire FW040200039002T5-A18F
2. 2.5TS

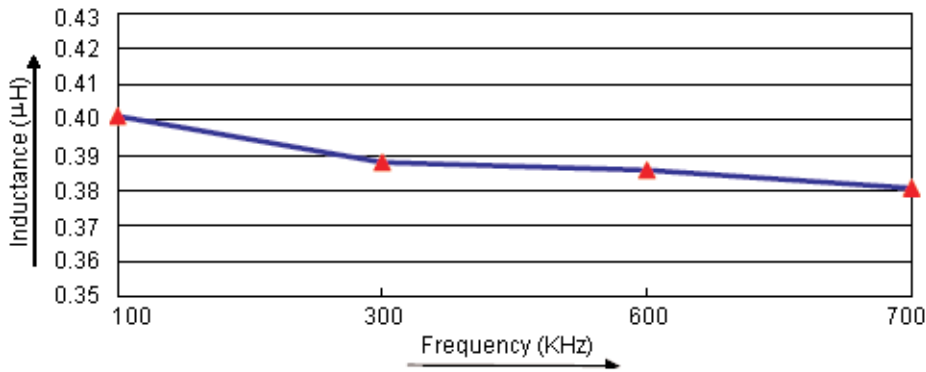
## Electric Characteristics

DC BIAS < 100KHz 0.25V >

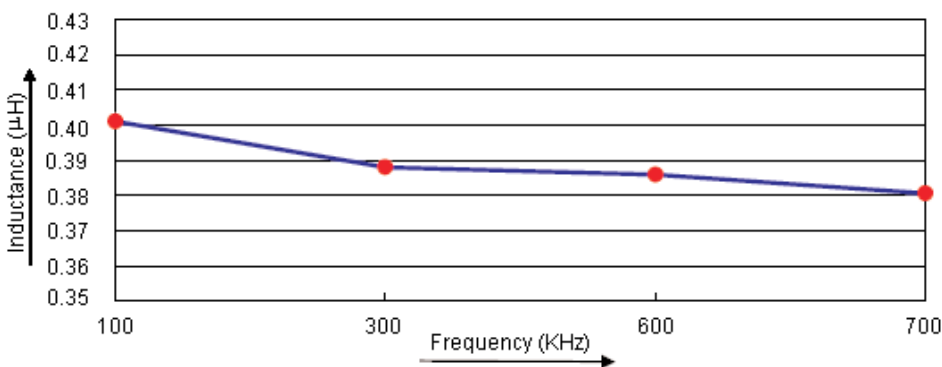
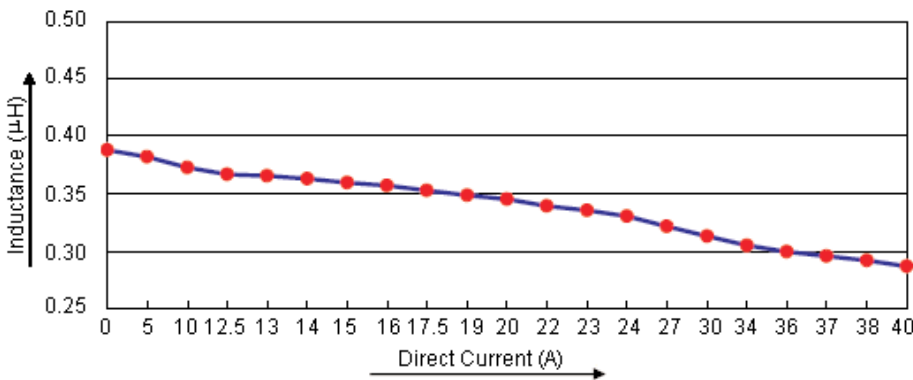


## Electric Characteristics

DC BIAS < 100KHz 0.25V >

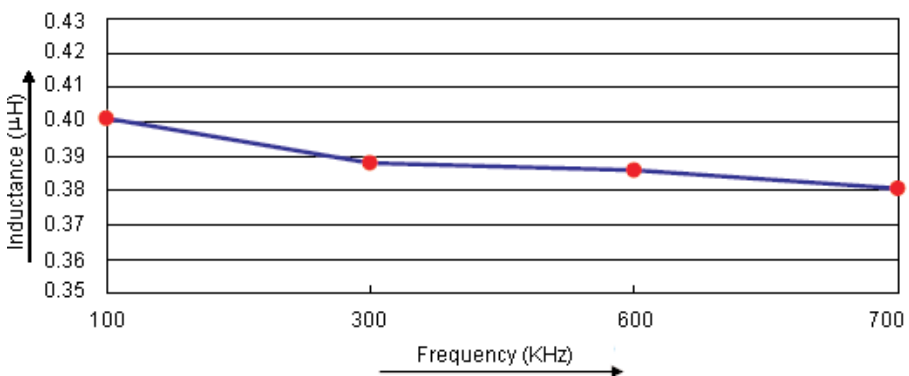
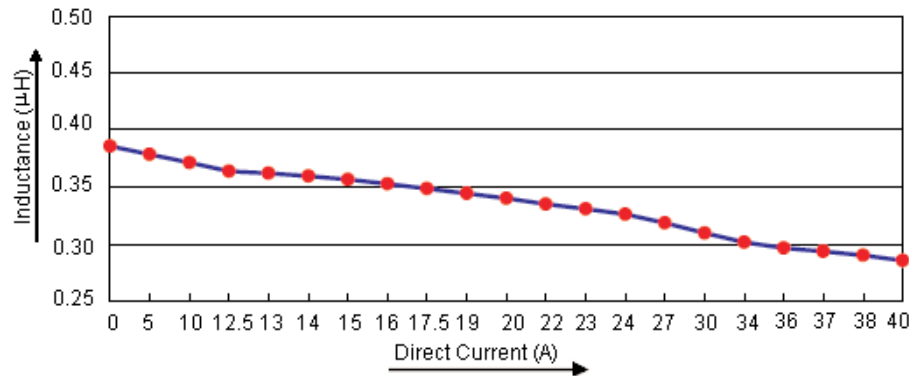


DC BIAS < 300KHz 0.25V >

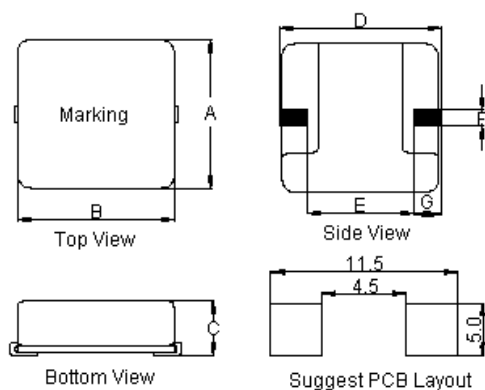


## Electric Characteristics

DC BIAS < 600KHz 0.25V >



## Configurations and Dimensions



Dimensions : Millimetres

A	10 ±0.4mm	-
B	10 ±0.4mm	-
C	4.3mm	Maximum
D	11mm	
E	5.6mm	Reference
F	2mm	
G	2.35mm	

Marking: R39

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

## Part Number Table

Description	Part Number
Inductor, 0.39µH, 20%, 22A	MCSC4015-R39MU

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