



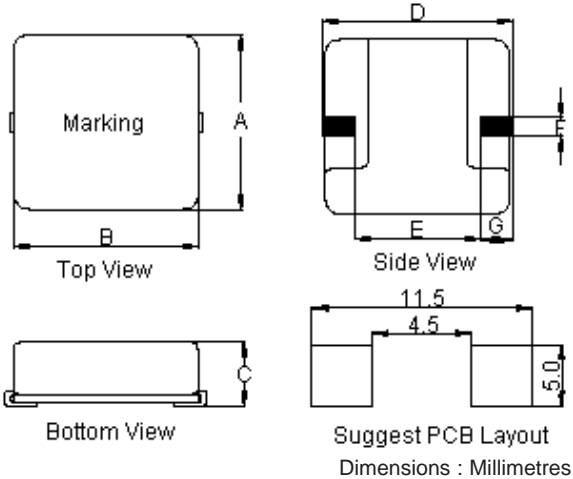
PART NO.

MCSC4015-R39MU

REVISIONS

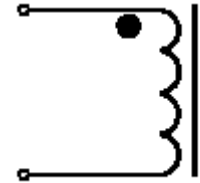
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Shashi	07/2/11	Jagan	07/2/11	Farnell	21/2/11

Configurations and Dimensions



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

Schematic Diagram



Note:

1. Wire FW040200039002T5-A18F
2. 2.5TS

Marking : R39 1. The long pin is the beginning of winding.
YYWW

Electrical Characteristics

Test Condition		
300KHz 0.25V	L	0.39µH ±20%
Ta 25°C	DCR	1.36mΩ ±7%
300KHz 0.25V I _{rms} = 22A (Maximum)	L at I _{rms}	0.34µH (Reference)
300KHz 0.25V I _{max} = 16.5A (Maximum)	L at I _{max}	0.3µH (Reference)

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

Note

- I_{rms} : DC current rating at 45°C surface temperature raise (typical)
I_{max} : DC current rating at 90°C surface temperature raise (typical)

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm	G mm
Specification	10 ±0.4	10 ±0.4	4.3 Maximum	11 Maximum	5.6 (Reference)	2 (Reference)	2.35 (Reference)
1	10.17	10.17	3.95	10.7	5.67	2.03	2.56
2	10.24	10.16	3.97	10.63	5.31	2.02	2.57
3	10.21	10.18	3.98	10.61	5.34		2.6
4	10.15	10.17	3.96		5.41	2.03	2.48
5	10.17	10.18	3.95	10.68	5.37	2.02	2.54
Average	10.19	10.17	3.96	10.65	5.42	2.02	2.55

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Shashi	07/02/11
CHECKED BY:	DATE:
Jagan	07/02/11
APPROVED BY:	DATE:
Farnell	21/02/11

DRAWING TITLE:

Inductor

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10002777	SC4015-R39MU	A
SCALE: NTS	U.O.M.: mm	SHEET: 1	OF 4



PART NO.

MCSC4015-R39MU

REVISIONS

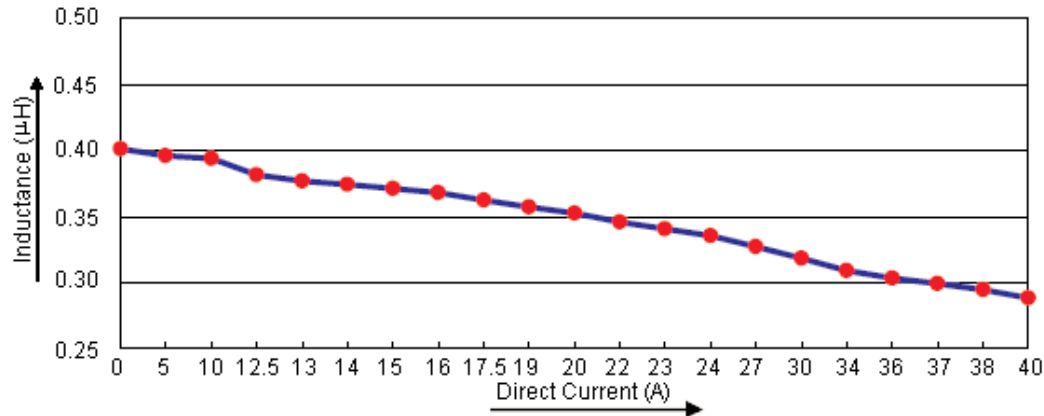
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-	A	RELEASED	Shashi	07/2/11	Jagan	07/2/11	Farnell	21/2/11

Test Data for Electrical

Test Item	L μH	DCR mΩ	L at I _{rms} μH	L at I _{max} μH
Condition	300KHz 0.25V	at 25°C	300KHz 0.25V I _{rms} = 22A (Maximum)	300KHz 0.25V I _{max} = 30A (Maximum)
Specification	0.39 ±20%	1.36 ±7%	0.34 Reference	0.3 Reference
1	0.396	1.38	0.34	0.3
2	0.397	1.34	0.33	
3	0.387	1.36	0.35	0.29
4	0.42	1.38		0.31
5	0.405	1.36		0.3
Average	0.401	1.36	0.34	0.3

Electric Characteristics

DC BIAS < 100KHz 0.25V >



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Jagan

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Farnell

DATE:

07/02/11

DATE:

07/02/11

DATE:

21/02/11

DRAWING TITLE:

Inductor

SIZE
A

DWG NO.

M10002777

ELECTRONIC FILE

SC4015-R39MU

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 2 OF 4



PART NO.

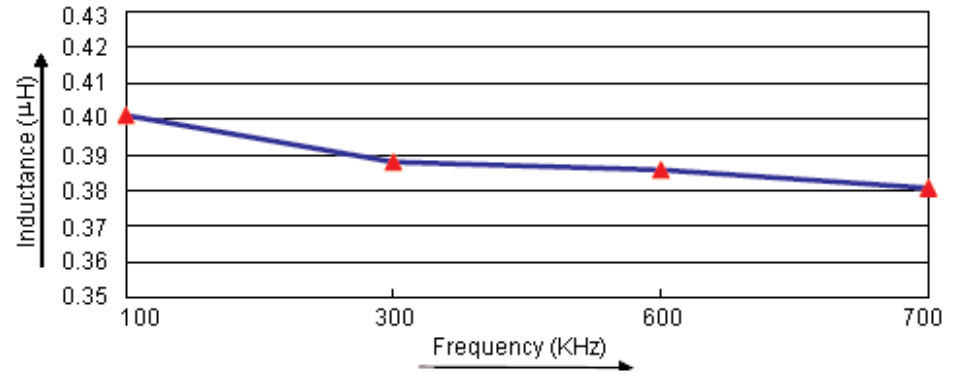
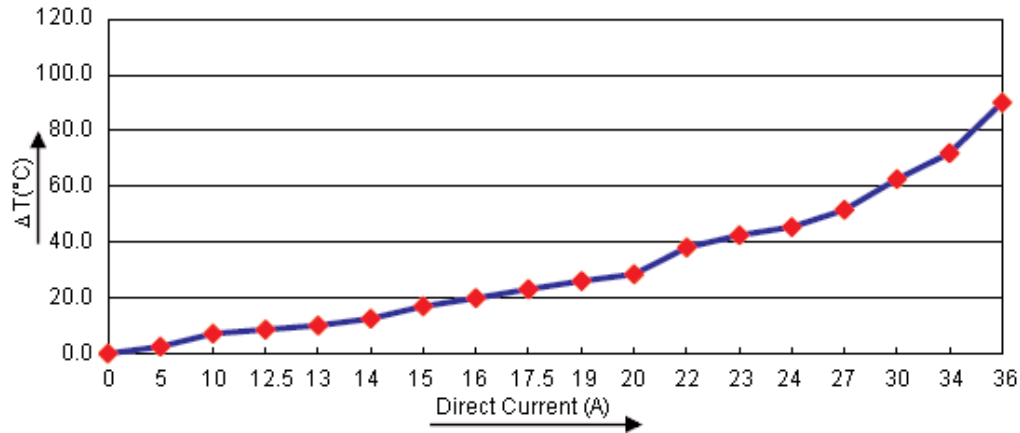
MCSC4015-R39MU

REVISIONS

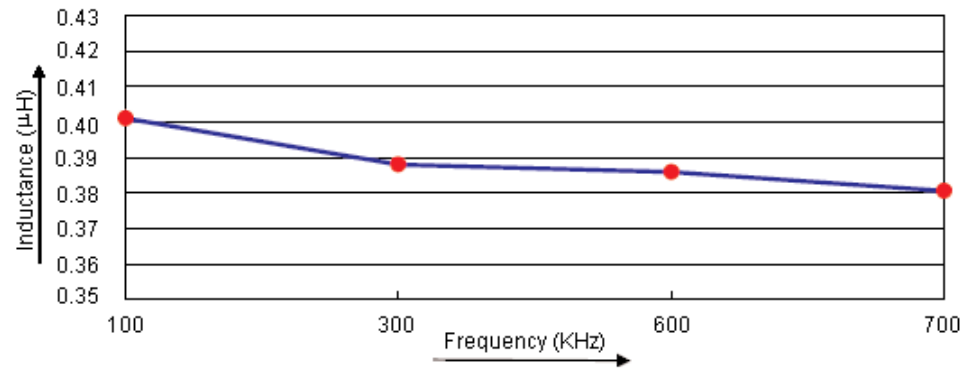
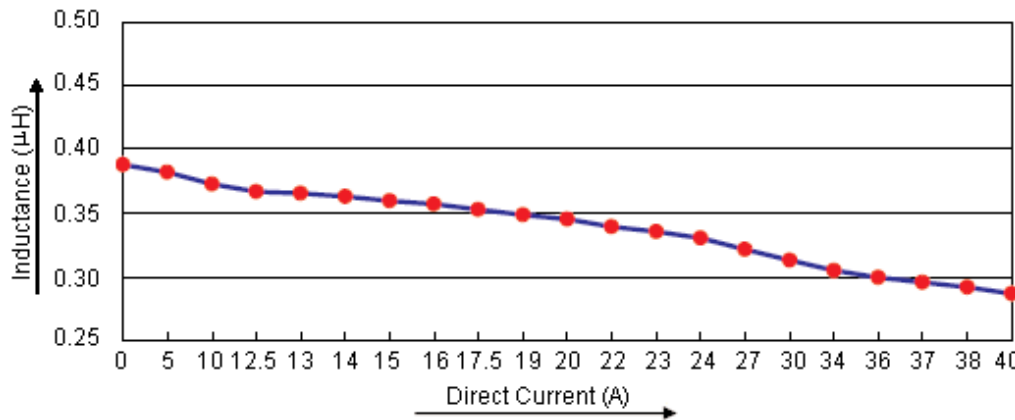
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-	A	RELEASED	Shashi	07/2/11	Jagan	07/2/11	Farnell	21/2/11

Electric Characteristics

DC BIAS < 100KHz 0.25V >



DC BIAS < 300KHz 0.25V >



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Farnell	21/02/11

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Inductor

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10002777	SC4015-R39MU	A
SCALE: NTS	U.O.M.: mm	SHEET: 3 OF 4	



PART NO.

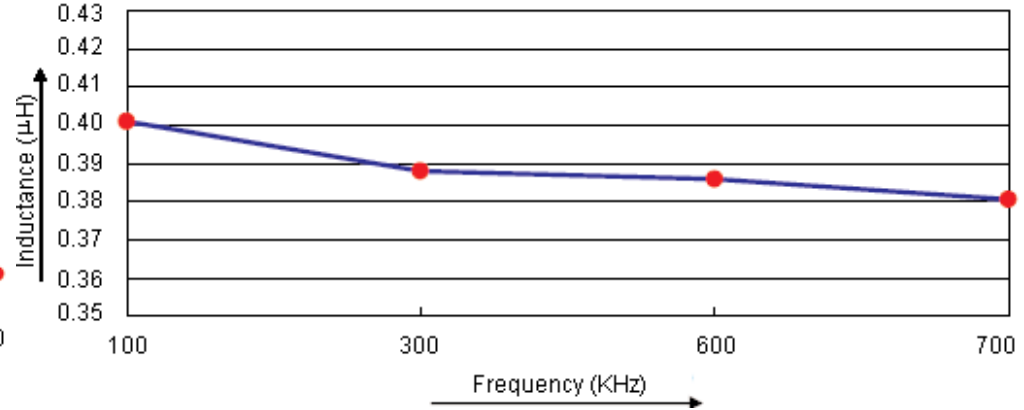
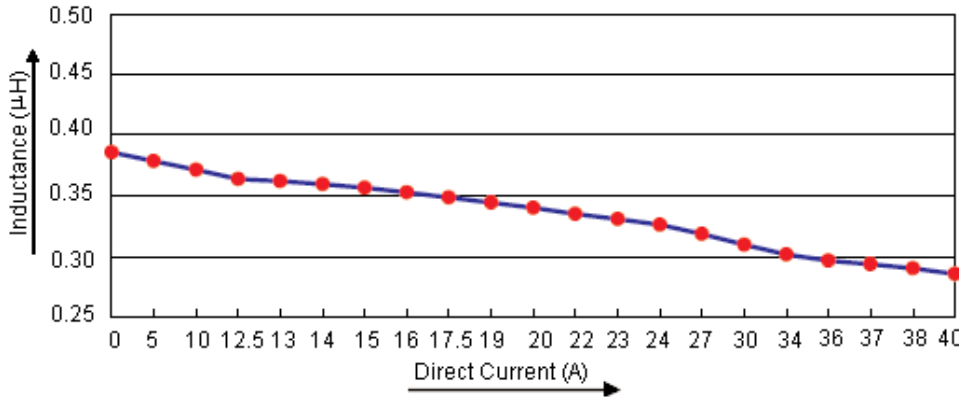
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-	A	RELEASED	Shashi	07/2/11	Jagan	07/2/11	Farnell	21/2/11

Electric Characteristics

DC BIAS < 600KHz 0.25V >



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

Part Number Table

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

<http://www.farnell.com>
<http://www.newark.com>
<http://www.cpc.co.uk>

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SIZE A	DWG NO. M10002777	ELECTRONIC FILE SC4015-R39MU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 4 OF 4	