



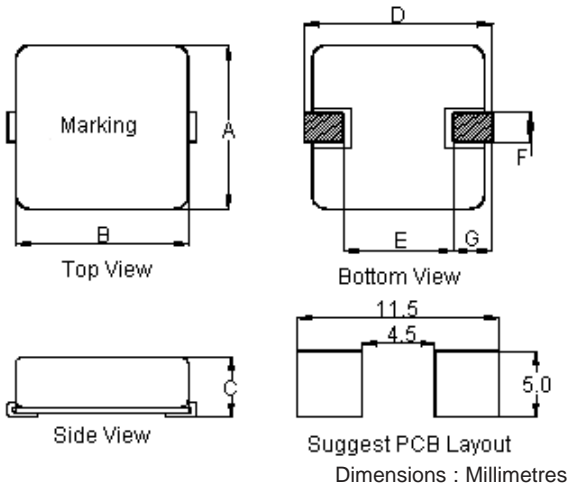
PART NO.

MCSC4015-R75MU

REVISIONS

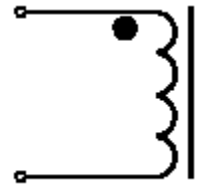
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Veena	07/2/11	Jagan	07/2/11	Farnell	21/2/11

Configurations and Dimensions



A	10 ±0.4 mm	-
B	10 ±0.4 mm	-
C	4 mm	Maximum
D	11 mm	Maximum
E	5.6 mm	(Reference)
F	2 mm	(Reference)
G	2.35 mm	(Reference)

Schematic Diagram



Marking : R75 1. The long pin is the beginning of winding.
YYWW

Electrical Characteristics

Test Condition		
300KHz/0.25V	L	0.75µH ±20%
T _a 25°C	DCR	3mΩ ±7%
300KHz 0.25V I _{rms} = 20A (Maximum)	L at I _{rms}	0.66µH (Reference)
300KHz 0.25V I _{max} = 28A (Maximum)	L at I _{max}	0.62µH (Reference)

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

Note:

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

I_{max} : DC current rating at 100°C temperature rise (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 (Maximum)	11 (Maximum)	5.6 (Reference)	2 (Reference)	2.35 (Reference)
1	10.13	10.15	3.79	10.21	5.96	1.96	2.35
2	10.11	10.13	3.74	10.27	5.75	1.95	2.27
3	10.13	10.16	3.76		5.64	1.9	2.44
4	10.14	10.15	3.78	10.32	5.89	1.94	2.25
5	10.18		3.77	10.36	5.77	1.97	2.27
Average	10.14	10.15	3.77	10.29	5.80	1.94	2.32

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

DRAWING TITLE:

Inductor

SIZE A	DWG NO. M10002599	ELECTRONIC FILE SC4015-R75MU	REV A
SCALE: NTS		U.O.M.: mm	SHEET: 1 OF 3



PART NO.

MCSC4015-R75MU

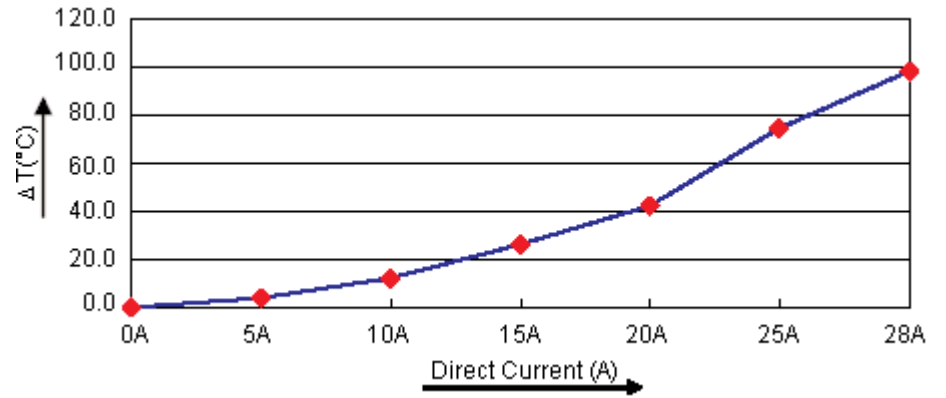
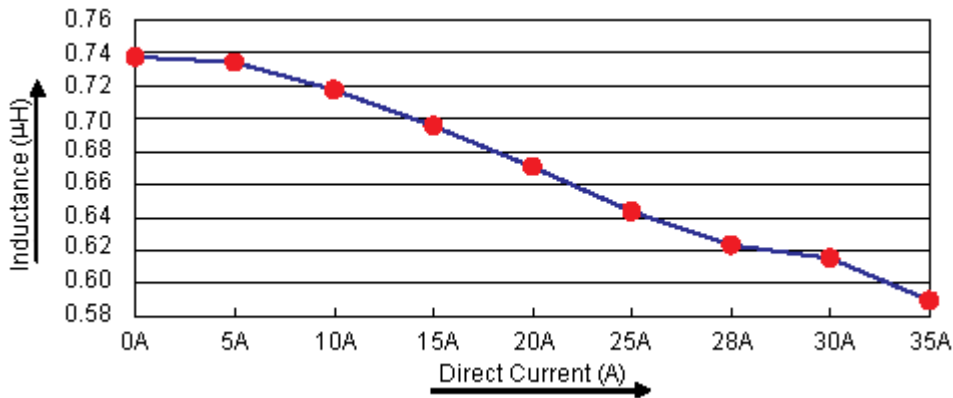
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-	A	RELEASED	Veena	07/2/11	Jagan	07/2/11	Farnell	21/2/11

Test Data for Electrical

Test Item	L μH	DCR mW	L at I _{rms} μH	L at I _{max} μH
Condition	300KHz 0.25V	at 25°C	300KHz/0.25V I _{rms} = 20A (Maximum)	300KHz/0.25V I _{max} = 28A (Maximum)
Specification	0.75 ±20%	3 ±7%	0.66 (Reference)	0.62 (Reference)
1	0.736	3.02	0.67	0.61
2	0.732	3.03	0.665	0.62
3	0.73	3.04	0.667	0.624
4	0.737	3.03	0.674	0.63
5	0.749	3.02	0.696	0.631
Average	0.737	3.03	0.674	0.623

Electric Characteristics



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DRAWING TITLE:			
Inductor			
SIZE A	DWG NO. M10002599	ELECTRONIC FILE SC4015-R75MU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



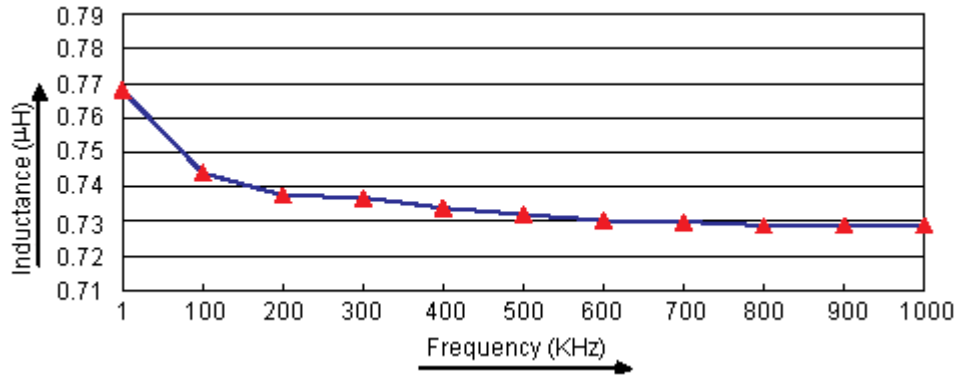
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Electric Characteristics



Material List

No.	Item	Material Description
1	Core	SMX250/105-SF56Q-GT; SPX-F120/090-SF56Q-GT
2	Wire	FW025200039003T5-A18F
3	Winding	3.5TS
4	Taping	SC4015 800Pieces/Reel
5	Glue	R67 YYWW

Part Number Table

Description	Part Number
Inductor, 0.75µH, 20%, 19A	MCSC4015-R75MU

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

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Inductor			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10002599	SC4015-R75MU	A
SCALE: NTS	U.O.M.: mm	SHEET: 3 OF 3	