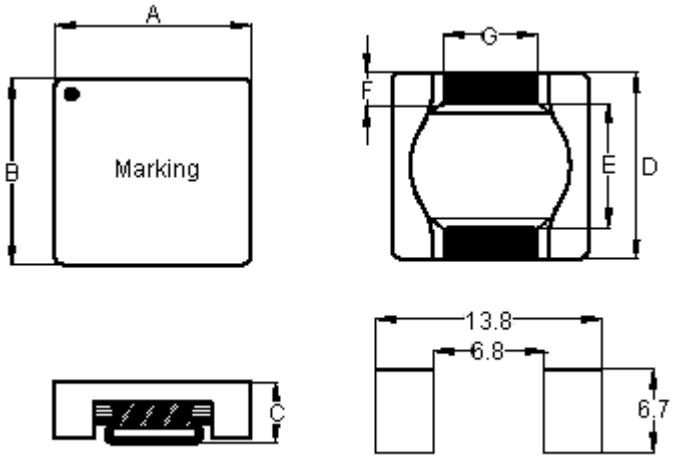
PART NO.	REVISIONS								
MCSC5018-1R8MU	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	-	A	RELEASED	Shashi	07/2/11	Jagan	07/2/11	Farnell	21/2/11

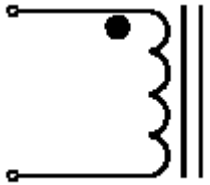
Configurations and Dimensions



Dimensions : Millimetres

A	12.6 ±0.4 mm	-
B	12.6 ±0.4 mm	-
C	4.6 ±0.4 mm	-
E1	12.7 ±0.4 mm	-
E2	7.6 ±0.4 mm	-
F	2.4 mm	(Reference)
G	5 ±0.4 mm	-

Schematic Diagram



Note:

1. Wire FW031240054504T5-A28
2. 4.5TS

RoHS Compliant

Marking : 1R8
YYWW

1. The long pin is the beginning of winding.

Electrical Characteristics

300KHz 0.25V	L	1.8µH ±20%
Ta = 25°C	DCR	3.43mΩ ±7%
300KHz 0.25V I_{rms} = 16A (Maximum)	L at I_{rms}	1.54µH (Reference)
300KHz 0.25V I_{max} = 26A (Maximum)	L at I_{max}	1.34µH (Reference)

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

Note

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

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

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm	G mm
Specification	**12.6 ±0.4**	**12.6 ±0.4**	**4.6 ±0.4**	**12.7 ±0.4**	**7.6 ±0.4**	**2.4 (Reference)**	**5 ±0.4**
1	12.73	12.75	4.68	12.81	7.71	2.35	4.86
2	12.75	12.78	4.66	12.88	7.69	2.38	4.89
3		12.76		12.86	7.75	2.39	4.96
4	12.74	12.75	4.71	12.85	7.73	2.4	4.89
5	12.71	12.73	4.76	12.83	7.71	2.38	4.93
Average	**12.74**	**12.75**	**4.69**	**12.85**	**7.72**	**2.38**	**4.91**

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
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	M10002639	SC5018-1R8MU	A

SCALE: NTS | U.O.M.: mm | SHEET: 1 OF 3

multicomp

PART NO.

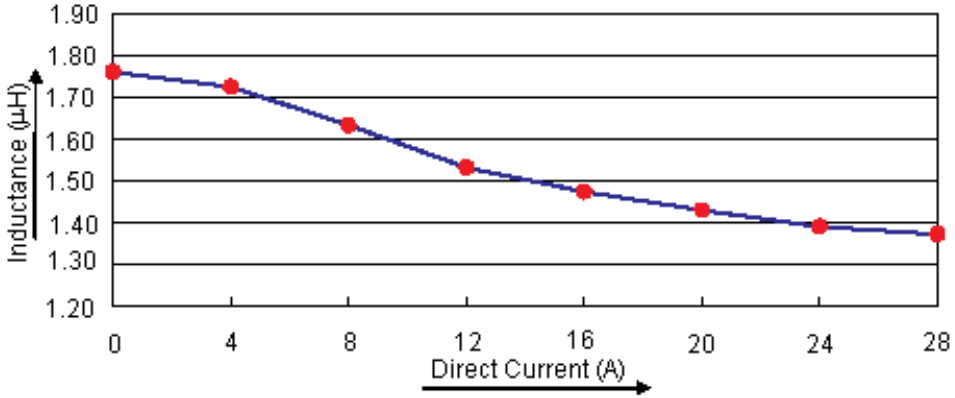
MCSC5018-1R8MU

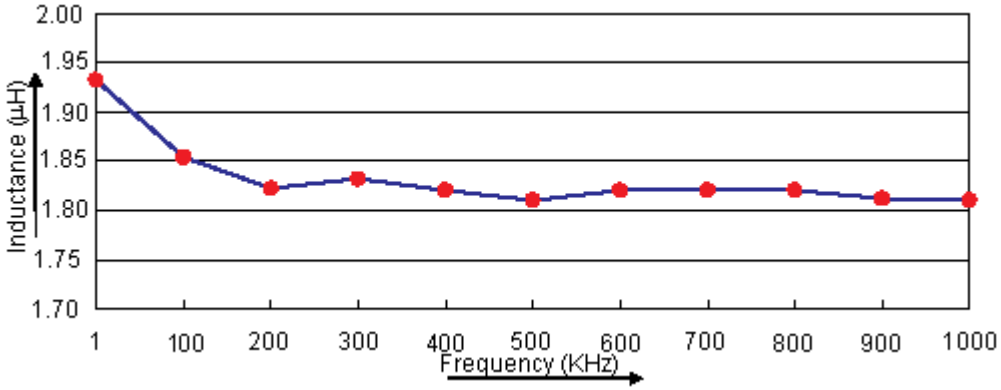
REVISIONS									
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Shashi	07/2/11	Jagan	07/2/11	Farnell	21/2/11

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} = 16A (Maximum)**	**300KHz 0.25V I_{max} = 26A (Maximum)**
Specification	**1.8 ±20%**	**3.43 ±7%**	**1.54 (Reference)**	**1.34 (Reference)**
1	1.84	3.44	1.57	1.36
2	1.83	3.46	1.55	1.35
3				
4	1.86	3.45	1.59	1.39
5	1.85	3.41	1.56	1.36
Average	**1.84**	**3.44**	**1.56**	**1.36**

Electric Characteristics





TOLERANCES:

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DRAWN BY:	DATE:
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	M10002639	SC5018-1R8MU	A

SCALE: NTS | U.O.M.: mm | SHEET: 2 OF 3

PART NO.	REVISIONS								
MCSC5018-1R8MU	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	-	A	RELEASED	Shashi	07/2/11	Jagan	07/2/11	Farnell	21/2/11

Material List

No.	Item	Material Description
1	Core	SMF430/105-SF56Q-GT; SPF120-SF56Q-GT
2	Wire	FW031240054504T5-A28
3	Winding	4.5TS
4	Taping	SC5015/SC5018 800 Pieces/Reel
5	Marking	1R8 YYWW

Part Number Table

Description	Part Number
Inductor, 1.8µH, 20%,19A	MCSC5018-1R8MU

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
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	M10002639	SC5018-1R8MU	A

SCALE: NTS | U.O.M.: mm | SHEET: 3 OF 3