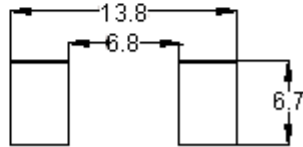
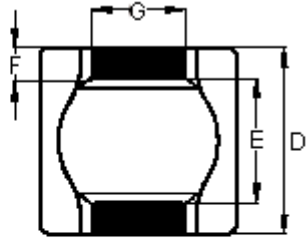
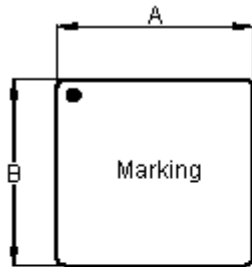


REVISIONS

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

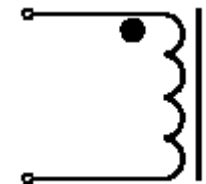


Suggest PCB Layout

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



Marking : 1R8 1. The long pin is the beginning of winding.
YYWW

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

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DRAWN BY:

Shashi

DATE:

07/02/11

DRAWING TITLE:

Inductor

CHECKED BY:

Jagan

DATE:

07/02/11

APPROVED BY:

Farnell

DATE:

21/02/11

SIZE A DWG NO.

M10002639

ELECTRONIC FILE

SC5018-1R8MU

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



PART NO.

MCSC5018-1R8MU

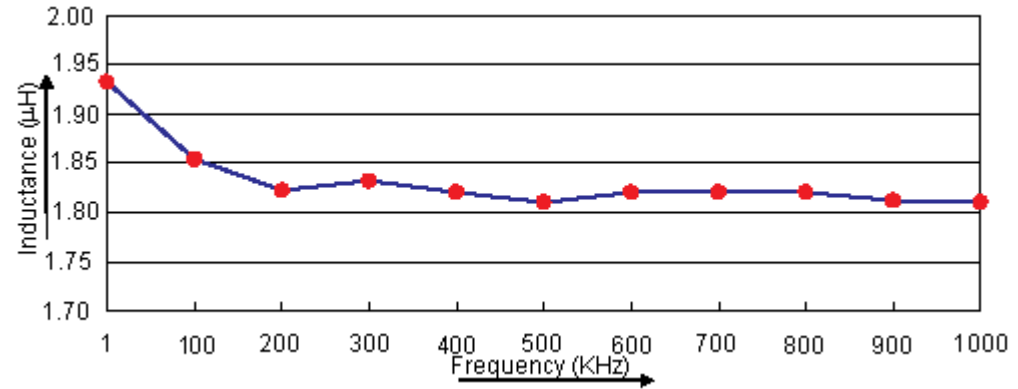
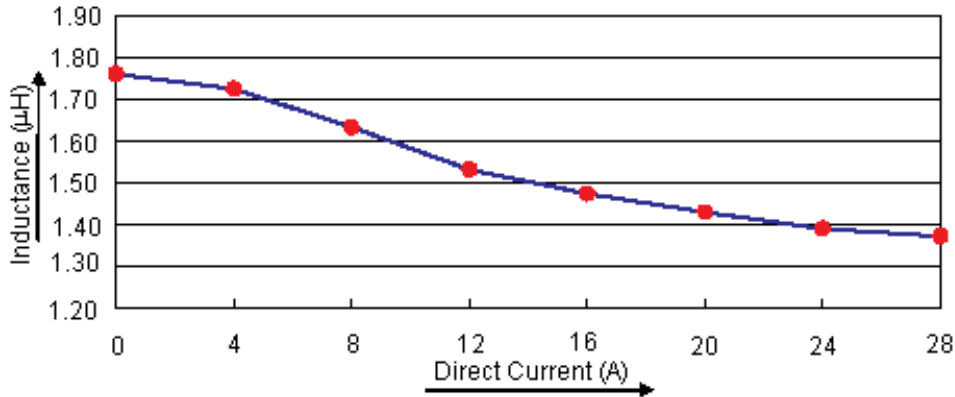
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-	A	RELEASED	Shashi	07/2/11	Jagan	07/2/11	Farnell	21/2/11

Test Data for Electrical

Test Item	L μ H	DCR $m\Omega$	L at I _{rms} μ H	L at I _{max} μ H
Condition	300KHz 0.25V	at 25°C	300KHz 0.25V I _{rms} = 16A (Maximum)	300KHz 0.25V I _{max} = 26A (Maximum)
Specification	1.8 \pm 20%	3.43 \pm 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



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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.

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

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>

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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	M10002639	SC5018-1R8MU	A
SCALE: NTS		U.O.M.: mm	SHEET: 3 OF 3