

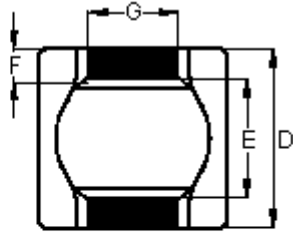
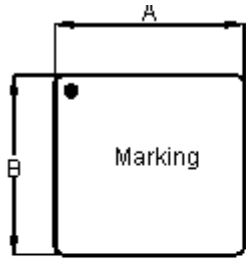
PART NO.

MCSC5018-2R7MU

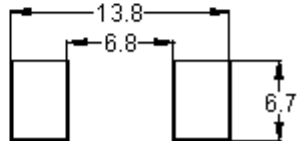
REVISIONS

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

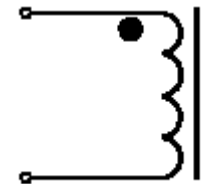


A	12.6 ±0.4 mm	-
B	12.6 ±0.4 mm	-
C	4.6 ±0.4 mm	-
D	12.7 ±0.4 mm	-
E	7.6 ±0.4 mm	-
F	2.4 mm	(Reference)
G	5 ±0.4 mm	-



Dimensions : Millimetres

Schematic Diagram



Note:

1. Wire FW031240054505T5-A28
2. 5.5TS

Marking : 2R7 1. The long pin is the beginning of winding.  
YYWW

Electrical Characteristics

300KHz 0.25V	L	2.7µH ±20%
Ta = 25°C	DCR	4.3mΩ ±7%
300KHz 0.25V I <sub>rms</sub> = 15A (Maximum)	L at I <sub>rms</sub>	2.22µH (Reference)
300KHz 0.25V I <sub>max</sub> = 24A (Maximum)	L at I <sub>max</sub>	1.93µH (Reference)

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

Note

- I<sub>rms</sub> : DC current rating at 50°C temperature raise (typical)  
I<sub>max</sub> : 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	12.75	12.76	4.76	12.77	7.75	2.38	4.74
2	12.76	12.77	4.82	12.8	7.69	2.39	4.79
3	12.73	12.74	4.79	12.83	7.78	2.38	4.84
4	12.76	12.76	4.71	12.87	7.69		4.88
5	12.74	12.75	4.73	12.76	7.75	2.39	4.86
Average	12.75	12.76	4.76	12.81	7.73	2.38	4.82

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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	M10002651	SC5018-2R7MU	A
SCALE: NTS	U.O.M.: mm	SHEET: 1 OF 3	



PART NO.

MCSC5018-2R7MU

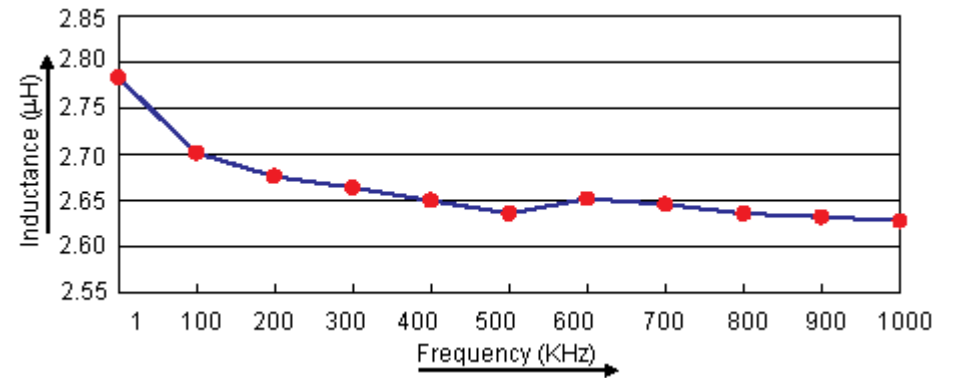
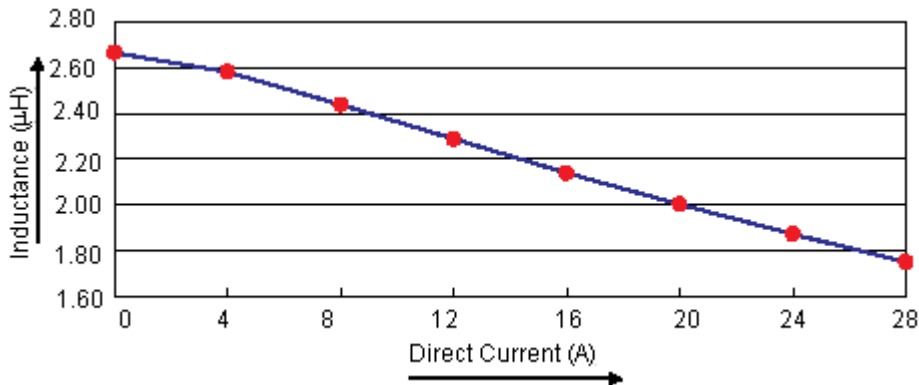
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-	A	RELEASED	Shashi	07/2/11	Jagan	07/2/11	Farnell	21/2/11

Test Data for Electrical

Test Item	L μH	DCR mΩ	L at I <sub>rms</sub> μH	L at I <sub>max</sub> μH
Condition	300KHz 0.25V	at 25°C	300KHz 0.25V I <sub>rms</sub> = 15A (Maximum)	300KHz 0.25V I <sub>max</sub> = 24A (Maximum)
Specification	2.7 ±20%	4.3 ±7%	2.22 (Reference)	1.93 (Reference)
1	2.58	4.19	2.14	1.9
2	2.68		2.21	1.97
3	2.66		2.18	1.93
4	2.65		2.16	1.92
5	2.67	4.2	2.18	1.93
Average	2.65	4.19	2.17	1.93

Electric Characteristics



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<b>APPROVED BY:</b>	<b>DATE:</b>
Farnell	21/02/11

**DRAWING TITLE:**

**Inductor**

<b>SIZE</b> A	<b>DWG NO.</b> M10002651	<b>ELECTRONIC FILE</b> SC5018-2R7MU	<b>REV</b> A
<b>SCALE: NTS</b>		<b>U.O.M.: mm</b>	<b>SHEET: 2 OF 3</b>



PART NO.

MCSC5018-2R7MU

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	FW031240054505T5-A28
3	Winding	5.5TS
4	Taping	SC5015/SC5018 800 Pieces/Reel
5	Marking	2R7 YYWW

Part Number Table

Description	Part Number
Inductor, 2.7µH, 20%, 17A	MCSC5018-2R7MU

<http://www.farnell.com>

<http://www.newark.com>

<http://www.cpc.co.uk>

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Farnell

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07/02/11

DATE:

07/02/11

DATE:

21/02/11

DRAWING TITLE:

Inductor

SIZE  
A DWG NO.

M10002651

ELECTRONIC FILE  
SC5018-2R7MU

REV  
A

SCALE: NTS

U.O.M.: mm

SHEET: 3 OF 3