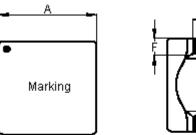
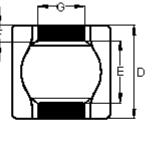
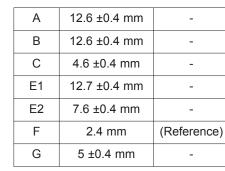
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		-	A	RELEASED	Shashi	07/2/11	Jagan	07/2/11	Farnell	21/2/11

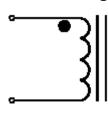
Configurations and Dimensions







Schematic Diagram





Note:

1. Wire FW031240054504T5-A28 2. 4.5TS

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	12.75	12.76	4.66	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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ECIFIED,	CHECKED BY:	DATE:	SIZE DWG NO.			ELECTRONIC FILE SC5018-1R8MU			REV
	Jagan	07/02/11			M10002639			υ	A
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Suggest PCB Layout Dimensions : Millimetres

6

13.8 6.8-

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 Irms = 16A (Maximum)	L at Irms	1.54µH (Reference)
300KHz 0.25V Imax = 26A (Maximum)	L at Imax	1.34µH (Reference)

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

Note

: DC current rating at 50°C temperature raise (typical) Irms

: DC current rating at 100°C temperature raise (typical) Imax

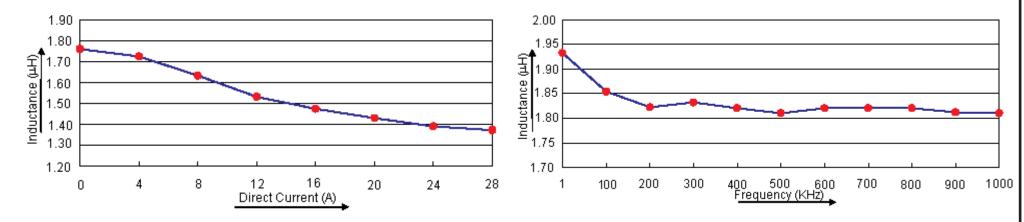
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Test Data for Electrical

Test Item			L at Irms μΗ	L at Imax μΗ
Condition	300KHz 0.25V	at 25°C 300KHz 0.25V Irms = 16A (Maxim		300KHz 0.25V Imax = 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	1.05	5.40	1.55	1.55
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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	MCSC5018-1R8MU	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		-	А	RELEASED	Shashi	07/2/11	Jagan	07/2/11	Farnell	21/2/11

Material List

No.	ltem	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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		Jagan	07/02/11	Δ	M10002639	SC5018-1R8MU	Α	
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