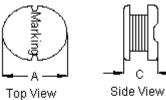
	PART NO.			REVISIONS							
	I ⁻ I	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE	
	MCSDC0604-4R7MU	-	А	RELEASED	Shambu	10/2/11	Jagan	10/2/11	Farnell	24/2/11	

Configurations and Dimensions



D

Electrical Characteristics

Operating temperature: -55°C to +130°C

Test Condition 1KHz 1V

at 25°C

1KHz 1V I_{rms} = 1.8A

Bottom View

Marking: 4R7

6.0

╺┛┎┕╾	

- 5.8

Suggest PCB Layout

Dimensions : Millimetres

L

DCR

 ΔT

1.8

А	5.8 mm	(Maximum)
С	4.8 mm	(Maximum)
D	1.8 mm	(Reference)

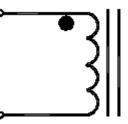
(at 25°C)

4.7μH ±20%

 $80m\Omega$ (Maximum)

Temperature rise 40°C (Maximum)

Schematic Diagram





Note:

1. Wire Ø0.28mm x 1P 2UEF1/U 155°C 2. 12.5TS (Reference)

Test Data for Mechanical

Test Item	A mm	C mm	D mm
Specification	5.8 (Maximum)	4.8 (Maximum)	1.8 (Reference)
1	5.62	4.61	1.86
2	5.63	4.58	1.91
3	5.59	4.59	1.84
4	5.61	5.62	1.78
5	5.62	4.61	1.82
Average	5.61	4.8	1.84

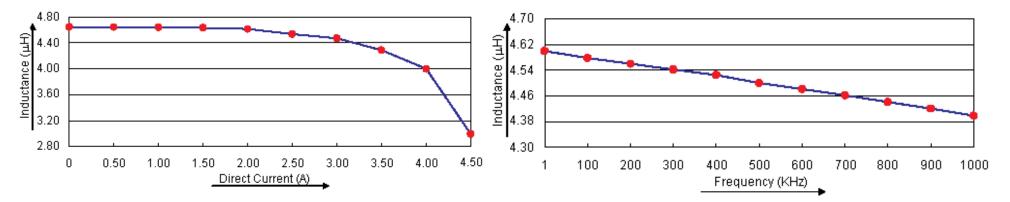
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completeness, any error in or omission from it or for any use made of it. Users of this	SPECIFIED,	CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV
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		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCSDC0604-4R7MU	-	А	RELEASED	Shambu	10/2/11	Jagan	10/2/11	Farnell	24/2/11

Test Data for Electrical

Test Item	L µH	DCR mΩ	ΔΤ
Condition	1KHz at 25°C		1KHz 1V I _{rms} = 1.8A
Specification	4.7 ±20%	80 (Maximum)	Temperature rise 40°C (Maximum)
1	4.64	42.52	OK
2	4.6	40.79	ОК
3	4.58	41.56	ОК
4	4.61	41.15	ОК
5	4.53	41.4	ОК
Average	4.59	41.48	ОК

Electric Characteristics



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out notice and replaces an data sheets previously supplied. The montation supplied is	SPECIFIED,	CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV
data sheet should check for themselves the Information and the suitability of the prod- ucts for their purpose and not make any assumptions based on information included or	DIMENSIONS ARE	Jagan	10/02/11	Δ	M10003211	SDC0604-4R7MU	A
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multicomp	PART NO.			REVISIONS						
	MCSDC0604-4R7MU	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		-	А	RELEASED	Shambu	10/2/11	Jagan	10/2/11	Farnell	24/2/11

Reliability Test

Test Item	Specifications	Test Method and Remarks
Operating temperature range	-55°C to +130°C	Including temperature rise due to self-generated heat
Storage condition Ambient temperature Humidity : 0°C to 40°C : Below 70%RH		To maintain the solderability of terminal electrodes, care must be taken to control temperature and humidity in the storage area.
Moisture sensitivity	Appearance: No abnormality No damageDCR change: Within ±20%Inductance change: Within ±20%	According to J-STD-020B level 3 Test condition :60°C 60% RH Test duration :40 hours Recovery :1 to 2 hours of recovery under the standard condition after the removal from the test chamber.
Solderability	All termination shall exhibit a continuous solder coating free from defects for a minimum of 90% of the surface area of any individual lead.	According to J-STD-002B Steam aging category : 97°C 98% RH Steam aging duration : 8 hours Solder : Lead-free solder Solder temperature : 260°C ±5°C Dip time : 5 +0/-0.5 seconds.

Material List

No.	ltem	Material Description
1	Core	R5A CDR5.6 x 4.55 (ST) B2.4 F2.1
2	Wire	Ø0.28mm x 1P 2UEF1/U (155°C)
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

Part Number Table

Description	Part Number
Inductors, 4.7µH, 20%, SMD	MCSDC0604-4R7MU

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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		CHECKED BY:	DATE:	SIZE DWG NO.	M10003211	ELECTRONIC FILE SDC0604-4R7MU	REV A
		Jagan	10/02/11	Δ			
		APPROVED BY:	DATE:		<u>L</u>		<u> </u>
		Farnell	24/02/11	SCALE: NTS	U.O.M.: mm	SHEET: 3 OF	F 3