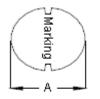
	PART NO.		REVISIONS								
w multicomp	-	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE	
		-	Α	RELEASED	Ashok	10/2/11	Jagan	10/2/11	Farnell	24/2/11	

(Maximum)

(Maximum) (Reference)

Configurations and Dimensions

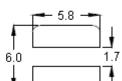


А	5.8 mm
С	3.9 mm
D	1.8 mm

Top View

Side View





Bottom View

Suggest PCB Layout Dimensions : Millimetres

Marking : 2R5

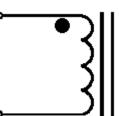
Electrical Characteristics

(at 25°C)

Test Condition		
1KHz 1V	L	2.5μH ±20%
at 25°C	DCR	50mΩ (Maximum)
1KHz 1V I _{rms} = 2.35A	ΔΤ	Temperature Rise 40°C (Maximum)

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

Schematic Diagram





Note:

1. Wire Ø0.35mm x 1P 2UEF1/U 155°C 2. 8.5TS (Reference)

Test Data for Mechanical

Test Item	A mm	C mm	D mm
Specification	5.8 (Maximum)	3.9 (Maximum)	1.8 (Reference)
1	5.58	3.59	1.51
2	5.56	3.64	1.47
3	5.61	3.61	1.55
4	5.63	3.63	1.62
5	5.6	3.66	1.58
Average	5.6	3.63	1.55

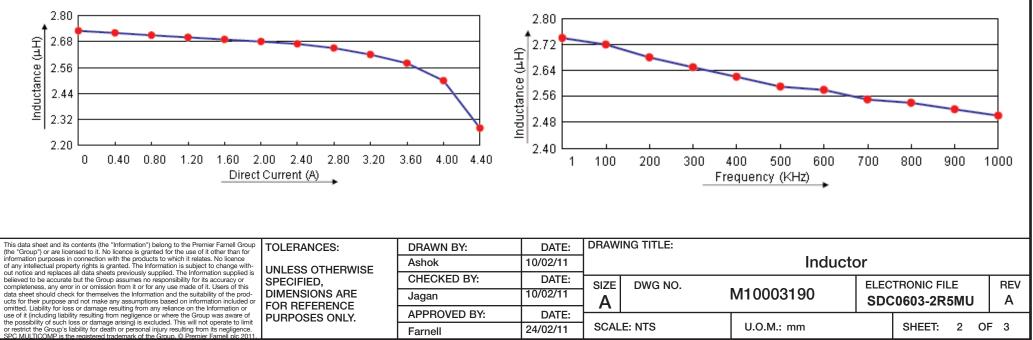
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believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this	SPECIFIED,	CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV
data sheet should 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 FOR REFERENCE	Jagan	10/02/11	Δ	M10003190	SDC0603-2R5MU	Α
childed Edbildy for loop of damage resulting formally follarios of the monitation of	PURPOSES ONLY.	APPROVED BY:	DATE:			SHEET: 1 OF	
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	PART NO.		REVISIONS								
multicomp	MCSDC0603-2R5MU	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE	
		-	А	RELEASED	Ashok	10/2/11	Jagan	10/2/11	Farnell	24/2/11	

Test Data for Electrical

Test Item	L µH	DCR mΩ	ΔΤ
Condition	1KHz 1V	at 25°C	1KHz 1V Irms = 2.35A
Specification	2.5 ±20%	50 (Maximum)	Temperature Rise 40°C (Maximum)
1	2.71	22.86	ОК
2	2.69	22.82	OK
3	2.68	23.16	OK
4	2.66	23.14	OK
5	2.7	23.08	OK
Average	2.69	23.01	ОК

Electric Characteristics



	PART NO.		REVISIONS								
	MCSDC0603-2R5MU	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE	
		-	А	RELEASED	Ashok	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 : 0°C to 40°C Humidity : 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 ±5°C Dip time : 5 +0/-0.5 seconds.

Material List

No.	ltem	Material Description
1	Core	K22 DRM 5.6 x 3.6 RB-R B2.2 F1.5
2	Wire	Ø0.35mm x 1P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

Part Number Table

Description	Part Number				
Inductors, 2.5µH, 20%, SMD	MCSDC0603-2R5MU				

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http://www.newark.com

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	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	Ashok	10/02/11	Inductor			
		CHECKED BY:	DATE:	SIZE DWG NO.	M10003100	ELECTRONIC FILE SDC0603-2R5MU	REV A
		Jagan	10/02/11				
		APPROVED BY:	DATE:		<u>L</u>	I	<u> </u>
		Farnell	24/02/11	SCALE: NTS	U.O.M.: mm	SHEET: 3 OI	F 3