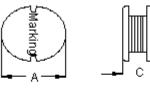
	PART NO.	RE		REVISIONS						
multicomp	-	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCSDC1006-271KU	-	A	RELEASED	Arun	10/2/11	Jagan	10/2/11	Farnell	24/2/11

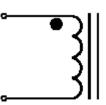
Configurations and Dimensions



C L	

А 9.8 mm (Maximum) С (Maximum) 5.8 mm D (Reference) 2.9 mm

Schematic Diagram





Note:

1. Wire Ø0.23mm x 1P 2UEF1/U 155°C 2. 76.5TS (Reference)

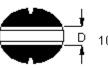
Test Data for Mechanical

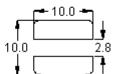
Test Item	A mm	C mm	D mm
Specification	9.8 (Maximum)	5.8 (Maximum)	2.9 (Reference)
1	9.56	5.54	2.81
2	9.54	5.61	2.83
3	9.52	5.57	2.79
4	9.49	5.53	2.76
5	9.51	5.58	2.84
Average	9.52	5.57	2.81

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information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change with-	UNLESS OTHERWISE	Arun	10/02/11		Inducto	or	
our notice and replaces an data sheets previously supplied. The information 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 FOR REFERENCE	Jagan	10/02/11	Δ	M10003048	SDC1006-271KU	A
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the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Farnell plc 2011.		Farnell	24/02/11	SCALE: NTS	U.O.M.: mm	SHEET: 1 O	F 3

Top View

Side View





Bottom View

Suggest PCB Layout

Dimensions : Millimetres

Marking: 271

Electrical Characteristics	
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(at 25°C)

Test Condition		
1KHz 1V	L	270μH ±10%
at 25°C	DCR	0.97Ω (Maximum)
1KHz 1V Irms = 0.57A	ΔΤ	Temperature Rise 40°C (Maximum)

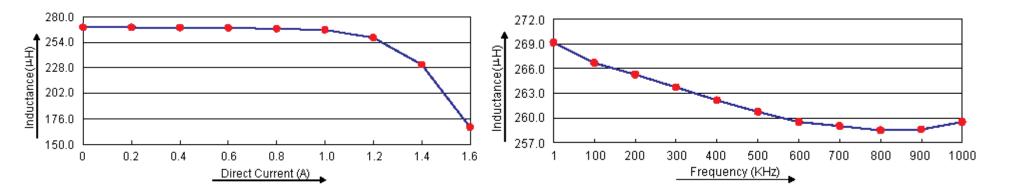
Operating temperature: -55°C to +130°C

multicomp	PART NO.			REVISIONS						
	r	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		-	А	RELEASED	Arun	10/2/11	Jagan	10/2/11	Farnell	24/2/11

Test Data for Electrical

Test Item	L µH	DCR Ω	ΔΤ
Condition	1KHz 1V	at 25°C	1KHz 1V I _{rms} = 0.57A
Specification	270 ±10%	0.97 (Maximum)	Temperature rise 40°C (Maximum)
1	269.5	0.68	ОК
2	269.3	0.00	ОК
3	269.25	0.69	ОК
4	268.95	0.09	ОК
5	267.15	0.68	ОК
Average	268.83	0.68	ОК

Electric Characteristics



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out notice and replaces an data sheets previously supplied. The information 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	M10003048	SDC1006-271KU	А
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	PART NO.			REVISIONS									
multicomp	-	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE			
	MCSDC1006-271KU	-	А	RELEASED	Arun	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.
Mointuro consitivity	Appearance : No abnormality No damage	According to J-STD-020B level 3 Test condition :60°C 60% RH Test duration :40 hours
Moisture sensitivity	DCR change : Within ±20% Inductance change : Within ±20%	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 9.5 x 5.5 RB-R B = 4.5 F = 3
2	Wire	Ø0.23mm x 1P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

Part Number Table

Description	Part Number		
Inductors, 27µH, 10%, SMD	MCSDC1006-271KU		

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

			I				
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	LINI ESS OTHERWISE	Arun	10/02/11	Inductor			
	CHECKED BY:	DATE:	SIZE DWG NO.	M100030/8	ELECTRONIC FILE	REV	
	Jagan	10/02/11	Δ		SDC1006-271KU	A	
	APPROVED BY:	DATE:					
	Farnell	24/02/11	SCALE: NTS	U.O.M.: mm	SHEET: 3 OF	F 3	