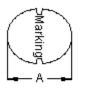
	PART NO.			REVISIONS						
🐼 multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCSDC1006-560KU	-	А	RELEASED	Arun	10/2/11	Jagan	10/2/11	Farnell	24/2/11

Configurations and Dimensions



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、 I.	

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

Schematic Diagram





Note:

1. Wire Ø0.33mm x 1P 2UEF1/U 155°C 2. 34.5TS (Reference)

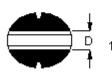
Test Data for Mechanical

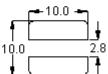
Test Item	A mm	C mm	D mm
Specification	9.8 (Maximum)	5.8 (Maximum)	2.9 (Reference)
1	9.56	5.54	2.81
2	9.54	5.61	2.83
3	9.52	5.57	2.79
4	9.49	5.53	2.76
5	9.51	5.58	2.84
Average	9.52	5.57	2.81

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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	
out notice and replaces all data sheets previously supplied. The Information supplied is 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	Jagan	10/02/11	Δ	M10003053	SDC1006-560KU	A
omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of	PURPOSES ONLY.	APPROVED BY:	DATE:				
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 Famell 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: 560

Electrical Characteristics

(at 25°C)

Test Condition		
1KHz 1V	L	56μH ±10%
at 25°C	DCR	190mΩ (Maximum)
1KHz 1V Irms = 1.15A	ΔΤ	Temperature rise 40°C (Maximum)

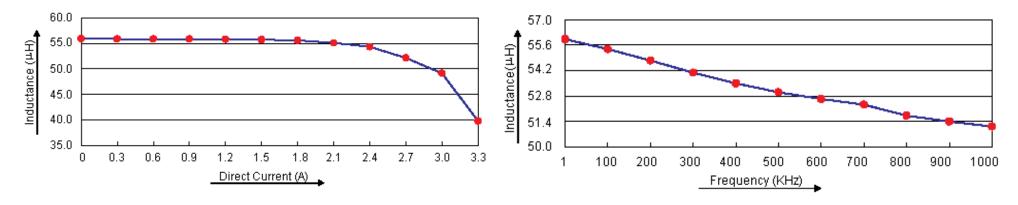
Operating temperature: -55°C to +130°C

	PART NO.			REVISIONS						
🐼 multicomp	E E E E E E E E E E E E E E E E E E E	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCSDC1006-560KU	-	А	RELEASED	Arun	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 I _{rms} = 1.15A
Specification	56 ±10%	190 (Maximum)	Temperature rise 40°C (Maximum)
1	55.86	152.88	ОК
2	55.21	152.08	ОК
3	55.75	151.95	ОК
4	55.48	152.3	ОК
5	55.63	152.75	ОК
Average	55.59	152.39	ОК

Electric Characteristics



- IH								
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	out notice and replaces all data sheets previously supplied. The Information supplied is 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	M10003053	SDC1006-560KU	A
	omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of	PURPOSES ONLY.	APPROVED BY:	DATE:		I		L
	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.	FURFUSES UNLT.		24/02/11	SCALE: NTS	U.O.M.: mm	SHEET: 2 OF	F 3
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	PART NO.			REVISIONS						
💿 multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		-	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.
Moisture sensitivity	Appearance : No abnormality No damage DCR 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
Solderability	Inductance change : Within ±20% All termination shall exhibit a continuous solder coating free from defects for a minimum of 90% of the surface area of any individual lead.	condition after the removal from the test chamber. 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	Ø0.33mm x 1P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

Part Number Table

Description	Part Number	
Inductors, 56µH, 10%, SMD	MCSDC1006-560KU	

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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		Jagan	10/02/11	Δ	M10003053	SDC1006-560KU	A
	APPROVED BY:	DATE:		I			
	Farnell	24/02/11	SCALE: NTS	U.O.M.: mm	SHEET: 3 OF	F 3	