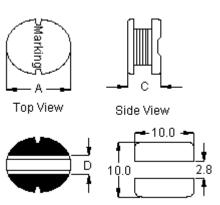


PART NO.

MCSDC1006-470KU

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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Arun	10/2/11	Jagan	10/2/11	Farnell	24/2/11

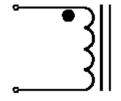
Configurations and Dimensions



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

Schematic Diagram





Note:

- 1. Wire Ø0.35mm x 1P 2UEF1/U 155°C
- 2. 32.5TS (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		

Marking: 470

Bottom View

Electrical Characteristics

(at 25°C)

Test Condition		
1KHz 1V	L	47μH ±10%
at 25°C	DCR	170mΩ (Maximum)
1KHz 1V Irms = 1.25A	ΔΤ	Temperature rise 40°C (Maximum)

Suggest PCB Layout

Dimensions: Millimetres

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

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Jagan	10/02/11
APPROVED BY:	DATE:
Farnell	24/02/11

DRAWI	NG TITLE:				
Inductor					
SIZE A	DWG NO.	M10003052		TRONIC FILE C1006-470KU	REV A
SCALE: NTS U.O.M.: mm			SHEET: 1 O	F 3	



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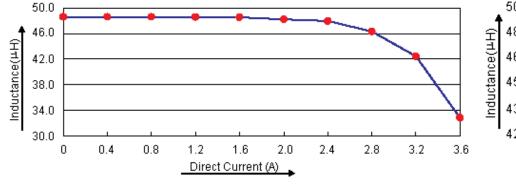
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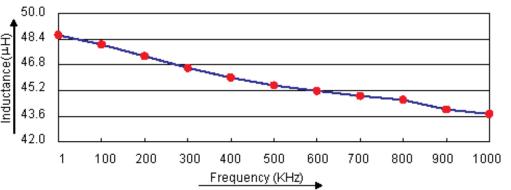
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Test Data for Electrical

Test Item	L μH	DCR mΩ	ΔΤ		
Condition	1KHz 1V	at 25°C	1KHz 1V I _{rms} = 1.25A		
Specification	47 ±10%	170 (Maximum)	Temperature rise 40°0 (Maximum)		
1	48.42	127.93	OK		
2	48.61	127.27	OK		
3	48.35	127.06	OK		
4	48.54	126.85	OK		
5	48.26	127.48	OK		
Average	48.44	127.32	ок		

Electric Characteristics





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	Inductor							
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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 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				

Material List

No.	Item	Material Description
1	Core	K22 DRM 9.5 x 5.5 RB-R B = 4.5 F = 3
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, 47µH, 10%, SMD	MCSDC1006-470KU				

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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Farnell	24/02/11

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