



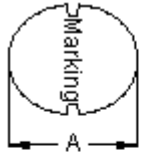
PART NO.

MCSDC1006-471KU

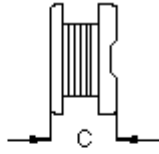
REVISIONS

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

Configurations and Dimensions

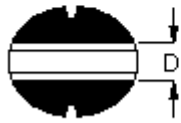


Top View

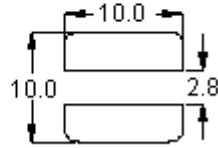


Side View

A	9.8 mm	(Maximum)
C	5.8 mm	(Maximum)
D	2.9 mm	(Reference)



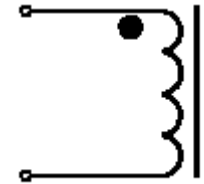
Bottom View



Suggest PCB Layout

Dimensions : Millimetres

Schematic Diagram



Note:

1. Wire Ø0.2mm x 1P 2UEF1/U 155°C
2. 101.5TS (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 : 471

Electrical Characteristics

(at 25°C)

Test Condition		
1KHz 1V	L	470µH ±10%
at 25°C	DCR	1.48Ω (Maximum)
1KHz 1V I _{rms} = 0.42A	ΔT	Temperature rise 40°C (Maximum)

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

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DRAWN BY:

Arun

CHECKED BY:

Jagan

APPROVED BY:

Farnell

DATE:

10/02/11

DATE:

10/02/11

DATE:

24/02/11

DRAWING TITLE:

Inductor

SIZE **A** DWG NO. **M10003053**

ELECTRONIC FILE **SDC1006-471KU**

REV **A**

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



PART NO.

MCSDC1006-471KU

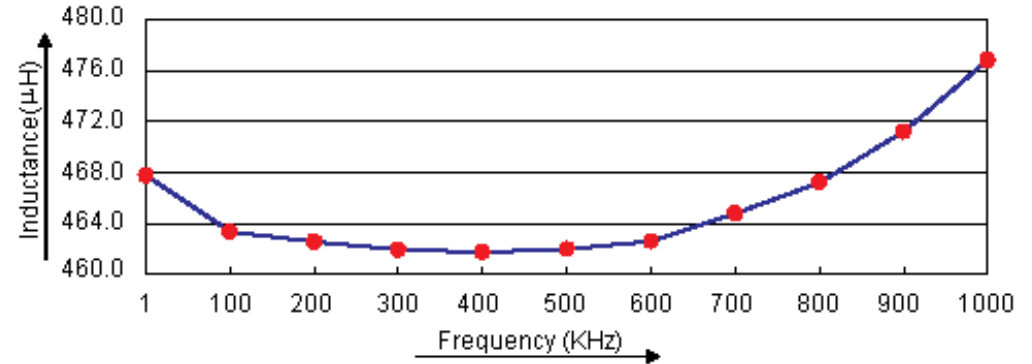
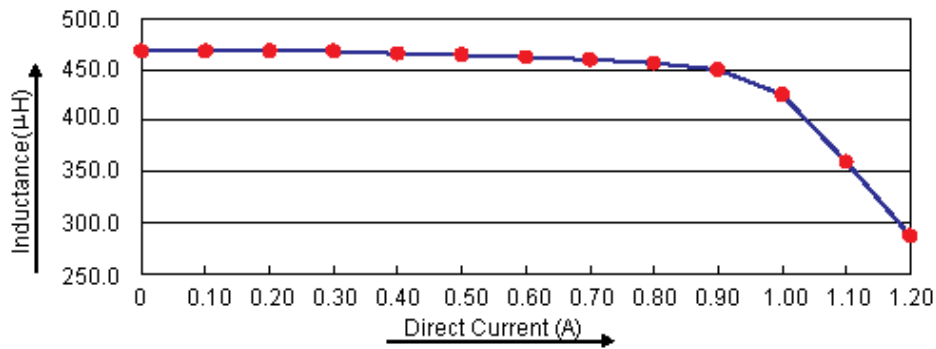
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Test Data for Electrical

Test Item	L μH	DCR Ω	ΔT
Condition	1KHz 1V	at 25°C	1KHz 1V I _{rms} = 0.42A
Specification	470 ±10%	1.48 (Maximum)	Temperature rise 40°C (Maximum)
1	468.35	1.19	OK
2	467.9	1.2	OK
3	468.1	1.21	OK
4	468.3	1.19	OK
5	467.75	1.2	OK
Average	468.08	1.2	OK

Electric Characteristics



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

DRAWING TITLE:			
Inductor			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10003053	SDC1006-471KU	A
SCALE: NTS		U.O.M.: mm	SHEET: 2 OF 3



PART NO.

MCSDC1006-471KU

REVISIONS

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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 Solder : Lead-free solder Solder temperature : 260 ±5°C Dip time : 5 +0/-0.5 seconds.

Material List

No.	Item	Material Description
1	Core	K22 DRM 9.5 x 5.5 RB-R B = 4.5 F = 3
2	Wire	Ø0.2mm x 1P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

Part Number Table

Description	Part Number
Inductors, 470µH, 10%, SMD	MCSDC1006-471KU

<http://www.farnell.com>

<http://www.newark.com>

<http://www.cpc.co.uk>

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Farnell	24/02/11

DRAWING TITLE:			
Inductor			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10003053	SDC1006-471KU	A
SCALE: NTS		U.O.M.: mm	SHEET: 3 OF 3