



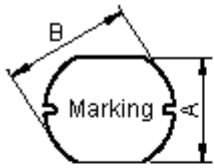
PART NO.

MCSD106-402KU

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Shashi	09/2/11	Jagan	09/2/11	Farnell	23/2/11

Configurations and Dimensions



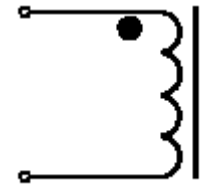
Top View



Side View

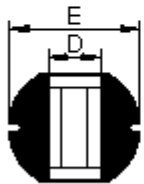
A	9 ±0.4 mm	-
B	10 ±0.4 mm	-
C	6.5 ±0.4 mm	-
D	3.5 mm	Reference
E	10 ±0.5 mm	-

Schematic Diagram

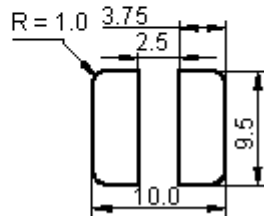


Note:

- Wire Ø0.14mm x 1P 2UEWF 155°C
- 304.5TS (Reference)



Bottom View



Suggest PCB Layout

Dimensions : Millimetres

Marking : 402 YY : Year
YYWW WW : Week

Electrical Characteristics

(at 25°C)

Test Condition		
100KHz 0.25V	L	4mH ±10%
at 25°C	DCR	8Ω (Maximum)
100KHz 0.25V 1 _{rms} = 0.25A	ΔT	Temperature rise 40°C (Maximum)

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

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm
Specification	9 ±0.4	10 ±0.4	6.5 ±0.4	3.5 (Reference)	10 ±0.5
1	9.16	9.85	6.55	2.62	9.92
2	9.14	9.91	6.58	2.70	9.82
3	9.09	9.81	6.59	2.64	9.87
4	9.1		6.52	2.68	
5	9.08	9.82	6.54	2.89	9.82
Average	9.11	9.84	6.56	2.71	9.87

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DRAWN BY:

Shashi

DATE:

09/02/11

DRAWING TITLE:

Inductor

CHECKED BY:

Jagan

DATE:

09/02/11

APPROVED BY:

Farnell

DATE:

23/02/11

SIZE A DWG NO.

M10002787

ELECTRONIC FILE

SD106-402KU

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



PART NO.

MCS D106-402KU

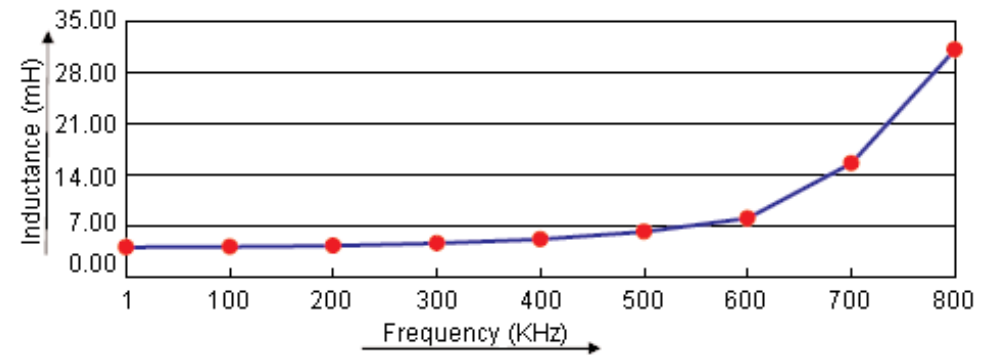
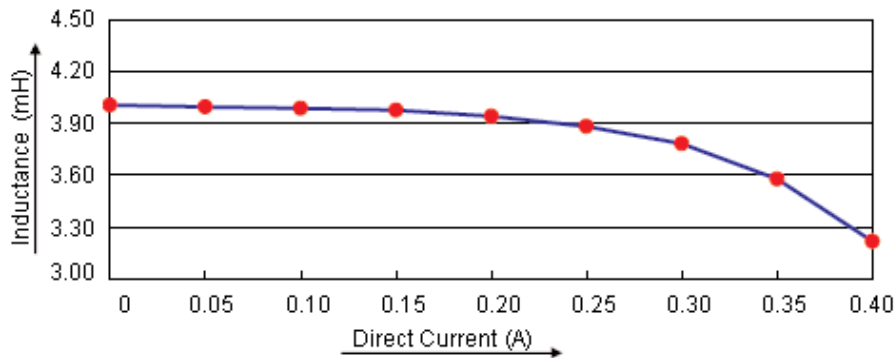
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-	A	RELEASED	Shashi	09/2/11	Jagan	09/2/11	Farnell	23/2/11

Test Data for Electrical

Test Item	L mH	DCR Ω	ΔT
Condition	100KHz 0.25V	at 25°C	100KHz 0.25V I _{rms} = 0.25A
Specification	4 ±10%	8 (Maximum)	Temperature rise 40°C (Maximum)
1	3.97	7.69	OK
2	4.06	7.67	OK
3	3.99	7.58	OK
4	4.03	7.34	OK
5	4.05	7.62	OK
Average	4.02	7.58	OK

Electric Characteristics



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CHECKED BY:	DATE:
Jagan	09/02/11
APPROVED BY:	DATE:
Farnell	23/02/11

DRAWING TITLE:			
Inductor			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10002787	SD106-402KU	A
SCALE: NTS		U.O.M.: mm	SHEET: 2 OF 3



PART NO.

MCS D106-402KU

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Shashi	09/2/11	Jagan	09/2/11	Farnell	23/2/11

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 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	R5A CDR10 x 6.5 (ST) B4.7 F4
2	Wire	Ø0.14mm x 1P 2UEWF 155°C
3	Solder (Lead Free)	99.3%Sn0.7%Cu

Part Number Table

Description	Part Number
Inductor, 4mH, 10%, 2pins	MCS D106-402KU

<http://www.farnell.com>

<http://www.newark.com>

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

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Jagan	09/02/11
APPROVED BY:	DATE:
Farnell	23/02/11

DRAWING TITLE:

Inductor

SIZE A	DWG NO. M10002787	ELECTRONIC FILE SD106-402KU	REV A
SCALE: NTS		U.O.M.: mm	SHEET: 3 OF 3