



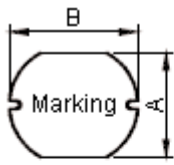
PART NO.

**MCSDC0503-332JU**

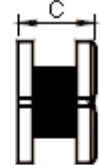
**REVISIONS**

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

**Configurations and Dimensions**

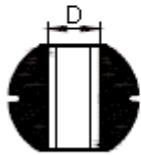


Top View

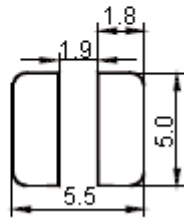


Side View

A	4.8 ±0.5 mm	-
B	5 ±0.3 mm	-
C	3 ±0.3 mm	-
D	2 mm	(Reference)



Bottom View

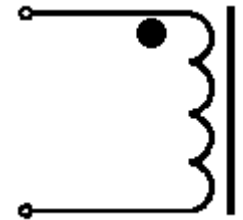


Suggest PCB Layout

Dimensions : Millimetres



**Schematic Diagram**



**Note:**

1. Wire Ø0.05mm x 1P Gread 1 180°C
2. 355.5TS (Reference)

**Marking : 332**

**Electrical Characteristics**

(at 25°C)

Test Condition		
1KHz 1V	L	3.3mH ±5%
at 25°C	DCR	38Ω (Maximum)
1KHz 1V I <sub>rms</sub> = 0.045A	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
Specification	4.8 ±0.5	5 ±0.3	3 ±0.3	2 (Reference)
1	4.6	4.86	3.05	1.74
2	4.54	4.88	3.02	1.77
3	4.56	4.85	3.03	1.74
4	4.61	4.87	3.02	1.81
5	4.53	4.85	3.03	1.68
<b>Average</b>	<b>4.57</b>	<b>4.86</b>	<b>3.03</b>	<b>1.75</b>

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**DRAWN BY:**

Ashok

**DATE:**

10/02/11

**CHECKED BY:**

Jagan

**DATE:**

10/02/11

**APPROVED BY:**

Farnell

**DATE:**

24/02/11

**DRAWING TITLE:**

**Inductor**

SIZE  
**A**

DWG NO.

**M10003096**

ELECTRONIC FILE  
**SDC0503-332JU**

REV  
**A**

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



PART NO.

**MCSDC0503-332JU**

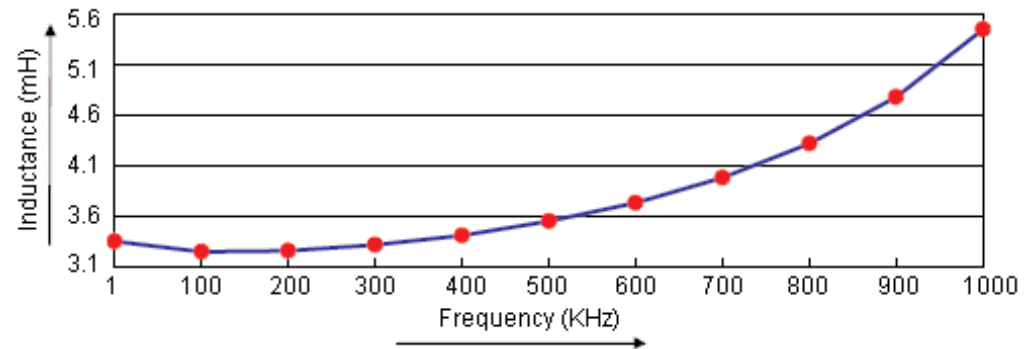
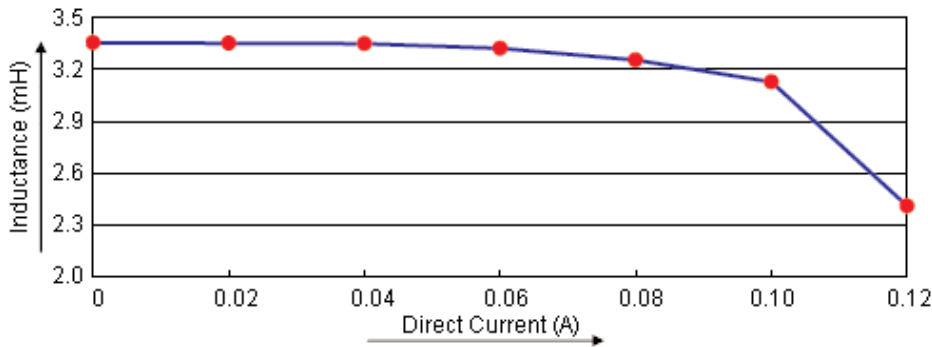
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**Test Data for Electrical**

Test Item	L mH	DCR Ω	ΔT
Condition	1KHz 1V	at 25°C	1KHz 1V I <sub>rms</sub> = 0.045A
Specification	3.3 ±5%	38 (Maximum)	Temperature Rise 40°C (Maximum)
1	3.35	29.77	OK
2	3.37	30.18	OK
3	3.39	29.8	OK
4	3.32	30.25	OK
5	3.36	30.21	OK
<b>Average</b>	<b>3.36</b>	<b>30.04</b>	<b>OK</b>

**Electric Characteristics**



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Ashok	10/02/11
<b>CHECKED BY:</b>	<b>DATE:</b>
Jagan	10/02/11
<b>APPROVED BY:</b>	<b>DATE:</b>
Farnell	24/02/11

<b>DRAWING TITLE:</b>			
<b>Inductor</b>			
<b>SIZE</b>	<b>DWG NO.</b>	<b>ELECTRONIC FILE</b>	<b>REV</b>
A	M10003096	SDC0503-332JU	A
<b>SCALE: NTS</b>		<b>U.O.M.: mm</b>	<b>SHEET: 2 OF 3</b>



PART NO.

MCSDC0503-332JU

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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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	R5A CDR5 x 3 (ST) B2 F1.5
2	Wire	Ø0.05mm x 1P Gread 1 180°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%
4	Glue	TH320

Part Number Table

Description	Part Number
Inductors, 3.3MH, 5%, SMD	MCSDC0503-332JU

<http://www.farnell.com>

<http://www.newark.com>

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

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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	M10003096	SDC0503-332JU	A
SCALE: NTS	U.O.M.: mm	SHEET: 3	OF 3