



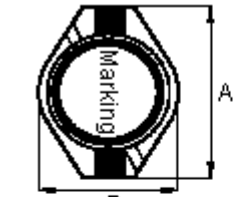
PART NO.

MCBFS7330-331MU

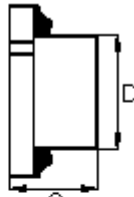
REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Sidhu	19/2/11	Jagan	19/2/11	Farnell	07/3/11

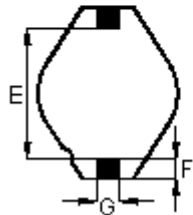
Configurations and Dimensions



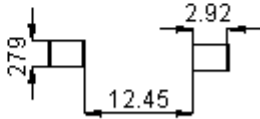
Top View



Side View

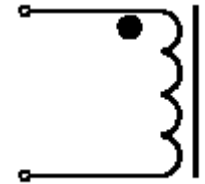


Bottom View

Suggest PCB Layout
Dimensions : Millimetres

A	18.54 mm	Maximum
B	15.24 mm	Maximum
C	7.62 mm	Maximum
D	12.7 ±0.3 mm	-
E	12.7 mm	Reference
F	2.54 mm	Reference
G	2.54 mm	Reference

Schematic Diagram



Note:

- (1) Wire Ø0.29mm x 1P 2UEWF 155°C
- (2) 69.5TS (Reference)

Marking : 331
YYWWYY : Year
WW : Week

Electrical Characteristics

(at 25°C)

Test Condition		
100KHz 0.1V	L	330µH ±20%
at 25°C	DCR	780mΩ (Maximum)
100KHz 0.1V I _{rms} = 0.9A	L at I _{rms}	ΔT40°C (Maximum)

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

Note: I_{rms} Temperature Rise 40°C

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm	G mm
Specification	18.54 (Maximum)	15.24 (Maximum)	7.62 (Maximum)	12.7 ±0.3	12.7 (Reference)	2.54 (Reference)	2.54 (Reference)
1	18.05	14.04	7.02	12.61	12.91	2.54	2.52
2	18.09	14.01	6.98	12.67	12.88	2.53	2.53
3	18.06	14.02	6.99	12.71	12.86		2.54
4	18.07		6.97	12.65	12.9	2.52	
5	18	14.01	6.99	12.66	12.85	2.54	2.51
Average	18.05	14.02	6.99	12.66	12.88	2.53	2.53

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DRAWN BY:

Sidhu

DATE:

19/02/11

CHECKED BY:

Jagan

DATE:

19/02/11

APPROVED BY:

Farnell

DATE:

07/03/11

DRAWING TITLE:

Inductor

SIZE
A

DWG NO.

M10003454

ELECTRONIC FILE

BFS7330-331MU

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



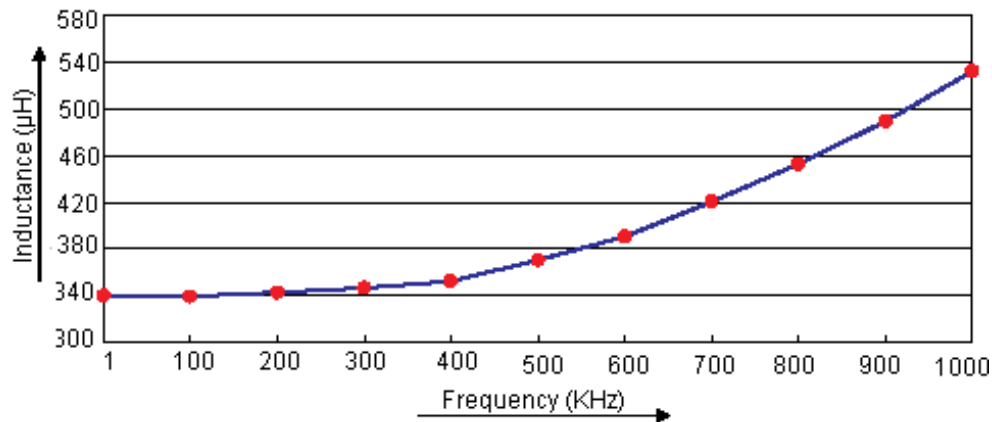
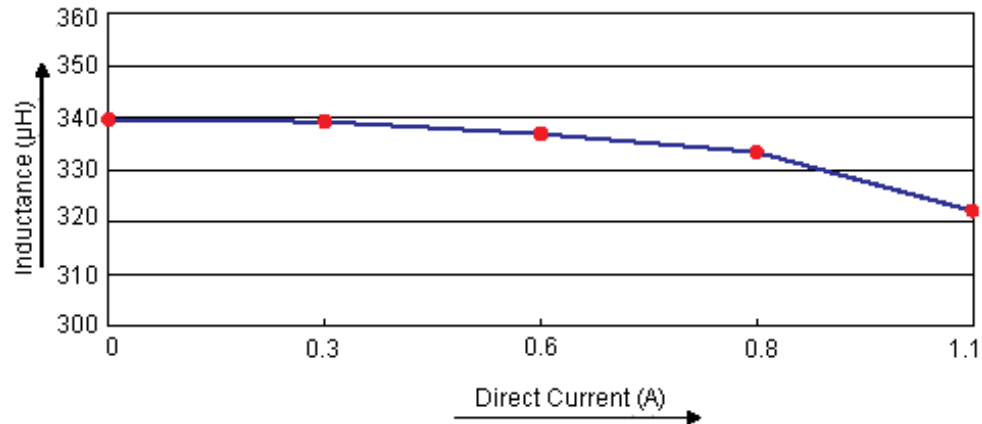
PART NO.

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-	A	RELEASED	Sidhu	19/2/11	Jagan	19/2/11	Farnell	07/3/11

Electric Characteristics



Test Data for Electrical

Test Item	L μH	DCR mΩ	L at I _{rms} μH
Condition	100KHz 0.1V	at 25°C	100KHz 0.1V I _{rms} = 0.9A
Specification	330 ±20%	780 (Maximum)	ΔT40°C (Maximum)
1	342.2	452.8	OK
2	343.6	455.6	OK
3	336.7	459.8	OK
4	336.3	458.7	OK
5	339.4	460.5	OK
Average	339.64	457.48	OK

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19/02/11

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Farnell

DATE:

07/03/11

DRAWING TITLE:

Inductor

SIZE
A

DWG NO.

M10003454

ELECTRONIC FILE

BFS7330-331MU

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 2 OF 3



PART NO.

MCBFS7330-331MU

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 $\pm 20\%$ Inductance change : Within $\pm 20\%$	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 $\pm 5^\circ\text{C}$ Dip time : 5 +0/-0.5 seconds.

Material List

No.	Item	Material Description
1	Core	N5D DR9.7 x 5.8 N5D R112.7 x 5.7 x 10.8
2	Wire	$\varnothing 0.29\text{mm}$ x 1P 2UEWF 155°C
3	Solder (Lead Free)	99.3%Sn / 0.7%Cu
4	Glue	TH320D / TH320-3
5	Base	C1270+03009-1 DAP

Part Number Table

Description	Part Number
Inductor, 330 μH , 20%, 1.15A	MCBFS7330-331MU

<http://www.farnell.com><http://www.newark.com><http://www.cpc.co.uk>

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07/03/11

DRAWING TITLE:

Inductor

SIZE
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DWG NO.

M10003454

ELECTRONIC FILE

BFS7330-331MU

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 3 OF 3