



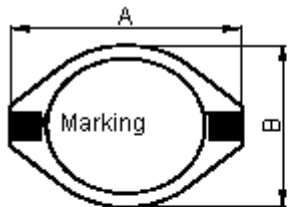
PART NO.

MCBF7330-3R3MU

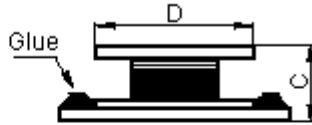
REVISIONS

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

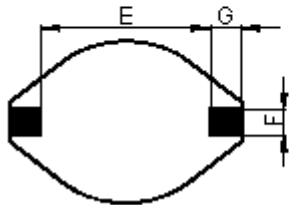
Configurations and Dimensions



Top View



Side View



Bottom View

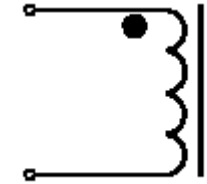


Suggest PCB Layout

Dimensions : Millimetres

A	18.54 mm	Maximum
B	15.24 mm	Maximum
C	7.11 mm	Maximum
D	12.7 ±0.3 mm	-
E	12.92 mm	Reference
F	2.54 mm	Reference
G	2.54 mm	Reference

Schematic Diagram



Note:

- (1) Wire Ø0.5mm x 2P 2UEWF 155°C
- (2) 6.5TS (Reference)

Marking : 3R3
YYWWYY : Year
WW : Week

Electrical Characteristics

(at 25°C)

Test Condition		
100KHz 0.25V	L	3.3µH ±20%
at 25°C	DCR	15mΩ (Maximum)
100KHz 0.25V I _{rms} = 6.2A	ΔT	Temperature Rise 40°C (Maximum)

Operating temperature: -40°C to +125°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)	7.11 (Maximum)	12.7 ±0.3	12.92 (Reference)	2.54 (Reference)	2.54 (Reference)
1	18.12	14.08	6.5	12.71	12.95	2.53	2.54
2	18.1	14.02	6.49	12.73	13.16	2.52	2.5
3	18.08	14.09	6.47	12.72	13.03	2.55	2.51
4	18.13	14.03	6.55	12.75	13.07	2.53	2.52
5	18.2	14.05	6.52	12.76	13.1	2.54	2.53
Average	18.13	14.05	6.51	12.73	13.06	2.53	2.52

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Arun

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.

M10003020

ELECTRONIC FILE

BF7330-3R3MU

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



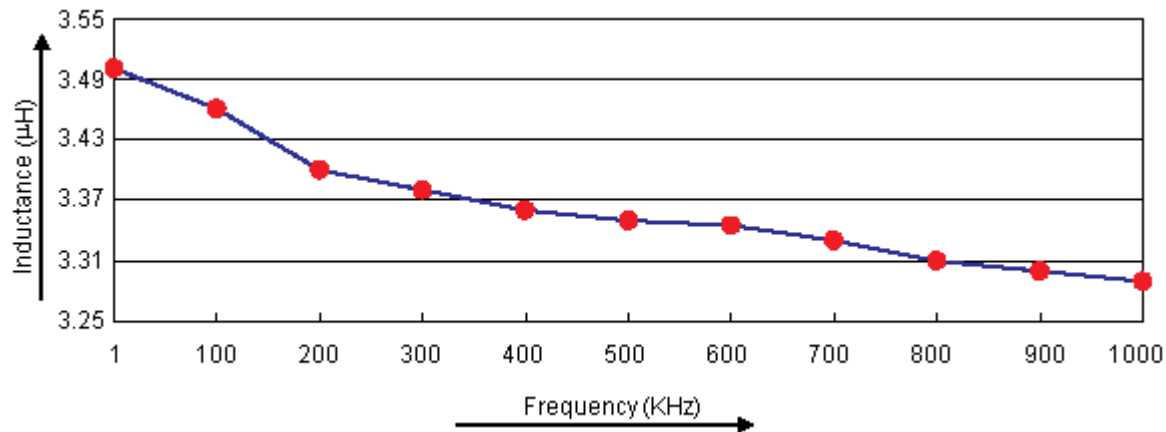
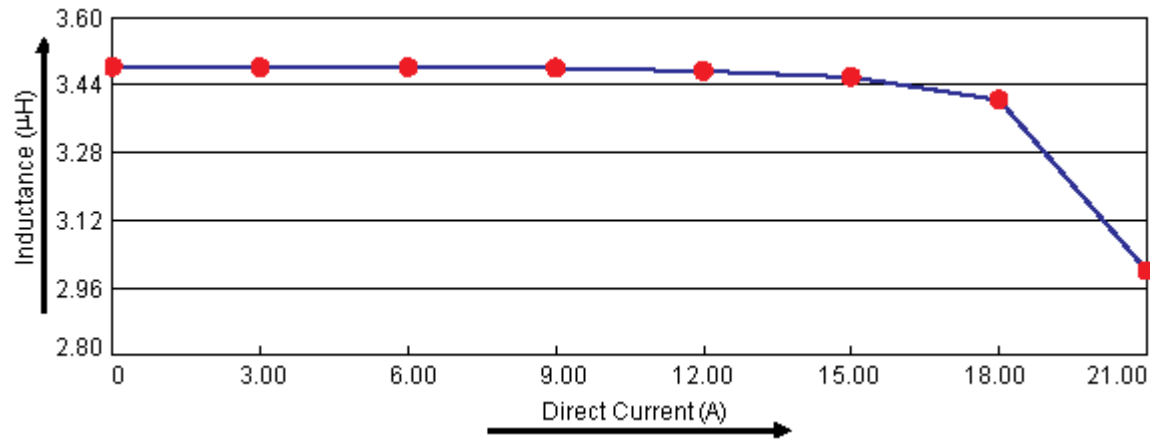
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Electric Characteristics



Test Data for Electrical

Test Item	L μH	DCR mΩ	ΔT
Condition	100KHz 0.25V	at 25°C	100KHz 0.25V I _{rms} = 6.2A
Specification	3.3 ±20%	15 (Maximum)	Temperature Rise 40°C (Maximum)
1	3.25	10.42	OK
2	3.26	9.76	OK
3	3.13	9.87	OK
4	3.29	9.94	OK
5	3.19	9.91	OK
Average	3.22	9.98	OK

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24/02/11

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ELECTRONIC FILE

BF7330-3R3MU

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 2 OF 3



PART NO.

MCBF7330-3R3MU

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Reliability Test

Test Item	Specifications	Test Method and Remarks
Operating temperature range	-40°C to +125°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 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	T2 DR12.7 x 5.6C B5.8 F3.3
2	Wire	Ø0.5mm x 2P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3% / Cu0.7%
4	Glue	TH320
3	Base	DAP HD127-3

Part Number Table

Description	Part Number
Inductor, 3.3μH, 20%, 8.1Arms	MCBF7330-3R3MU

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

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SCALE: NTS

U.O.M.: mm

SHEET: 3 OF 3