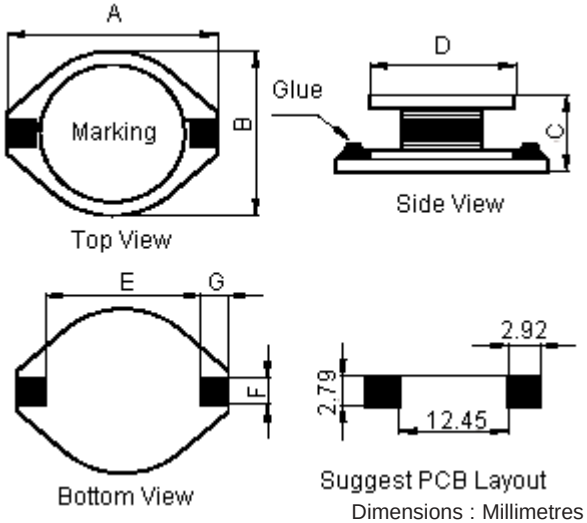
multicomp

PART NO.

MCBF7330-331MU

REVISIONS									
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Sidhu	14/2/11	Jagan	14/2/11	Farnell	28/2/11

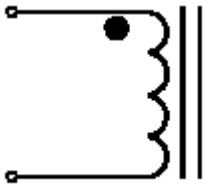
Configurations and Dimensions



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



RoHS Compliant

Note:

(1) Wire Ø0.32mm x 1P 2UEWF 155°C
(2) 69.5TS (Reference)

Marking : **331** **YY : Year**
YYWW **WW :Week**

Electrical Characteristics (at 25°C)

Test Condition		
100KHz 0.25V	L	330µH ±20%
at 25°C	DCR	560mΩ (Maximum)
100KHz 0.25V I_{rms} = 1A	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	18.46	14.07	6.24	12.75	13.20	2.53	2.56
2	18.45	14.06	6.26	12.78	13.17	2.51	
3	18.46	14.05	6.25	12.76	13.21	2.52	2.57
4	18.49	14.04	6.26	12.79	13.22	2.51	2.54
5	18.47	14.08	6.28	12.76	13.2		2.57
Average	**18.47**	**14.06**	**6.26**	**12.77**	**13.2**	**2.52**	**2.56**

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Sidhu	14/02/11
CHECKED BY:	DATE:
Jagan	14/02/11
APPROVED BY:	DATE:
Farnell	28/02/11

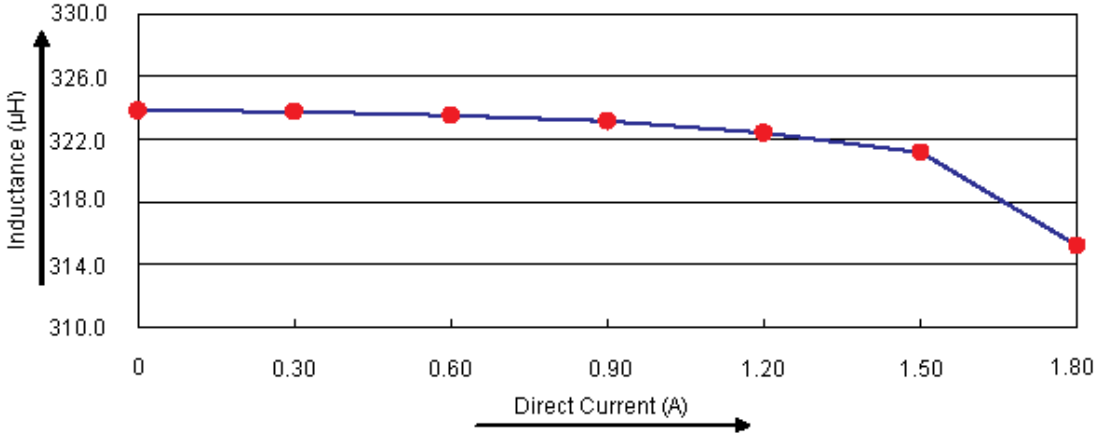
DRAWING TITLE: Inductor

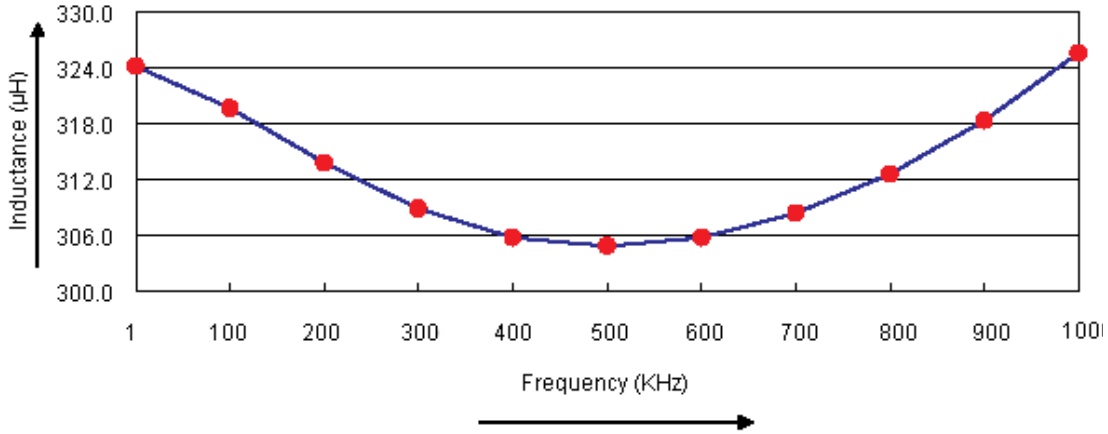
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10003218	**BF7330-331MU**	A

SCALE: NTS | U.O.M.: mm | SHEET: 1 OF 3

PART NO.	REVISIONS									
MCBF7330-331MU	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	-	A	RELEASED	Sidhu	14/2/11	Jagan	14/2/11	Farnell	28/2/11

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} = 1A**
Specification	**330 ±20%**	**560 (Maximum)**	**Temperature Rise 40°C (Maximum)**
1	337.9	430.1	OK
2	335.6	432.4	OK
3	338.7	431.3	OK
4	336.4	431.2	OK
5	332.7	431.7	OK
Average	**336.26**	**431.34**	**OK**

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CHECKED BY:	DATE:
Jagan	14/02/11
APPROVED BY:	DATE:
Farnell	28/02/11

DRAWING TITLE: Inductor

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10003218	**BF7330-331MU**	A

SCALE: NTS | U.O.M.: mm | SHEET: 2 OF 3

PART NO.	REVISIONS								
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	-	A	RELEASED	Sidhu	14/2/11	Jagan	14/2/11	Farnell	28/2/11

Reliability Test

Test Items	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 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	T2 DR12.7 x 5.6C B5.8 F3.3
2	Wire	Ø0.32mm x 1P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3% / Cu0.7%
4	Glue	TH320
5	Base	DAP HD 127-3

Part Number Table

Description	Part Number
Inductor, 330µH, 20%, SMD	MCBF7330-331MU

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

TOLERANCES:

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SCALE: NTS | U.O.M.: mm | SHEET: 3 OF 3