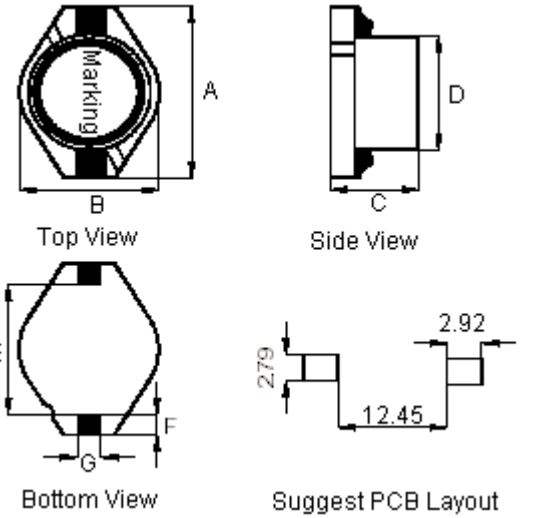
multicomp

PART NO.

MCBFS7330-680MU

REVISIONS									
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Arun	19/2/11	Jagan	19/2/11	Farnell	7/3/11

Configurations and Dimensions

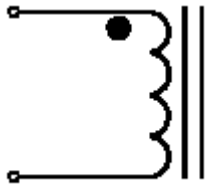


Dimensions : Millimetres

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

Marking : **680** **YY : Year**
YYWW **WW : Week**

Schematic Diagram



Note:

(1) Wire Ø0.4mm x 1P 2UEWF 155°C
(2) 31.5TS (Reference)

RoHS Compliant

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)**	**12.70 ±0.3**	**12.70 (Reference)**	**2.54 (Reference)**	**2.54 (Reference)**
1	18	14.01	7.02	12.69	12.89	2.51	2.54
2	18.04	14	6.92	12.65	12.9	2.5	2.53
3	18.01	14.06	6.98	12.71	12.88	2.53	2.52
4	18.06	14.05	6.94	12.65	12.91		2.53
5	18.04	14.01	6.96	12.66	12.93	2.52	2.51
Average	**18.03**	**14.03**	**6.96**	**12.67**	**12.90**	**2.52**	**2.53**

Electrical Characteristics (at 25°C)

Test Condition		
100KHz 0.25V	L	68µH ±20%
at 25°C	DCR	138mΩ (Maximum)
100KHz 0.1V I_{rms} = 2.2A	L at I_{rms}	ΔT40°C (Maximum)

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

Note: I_{rms} Temperature Rise 40°C

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Arun	19/02/11
CHECKED BY:	DATE:
Jagan	19/02/11
APPROVED BY:	DATE:
Farnell	07/03/11

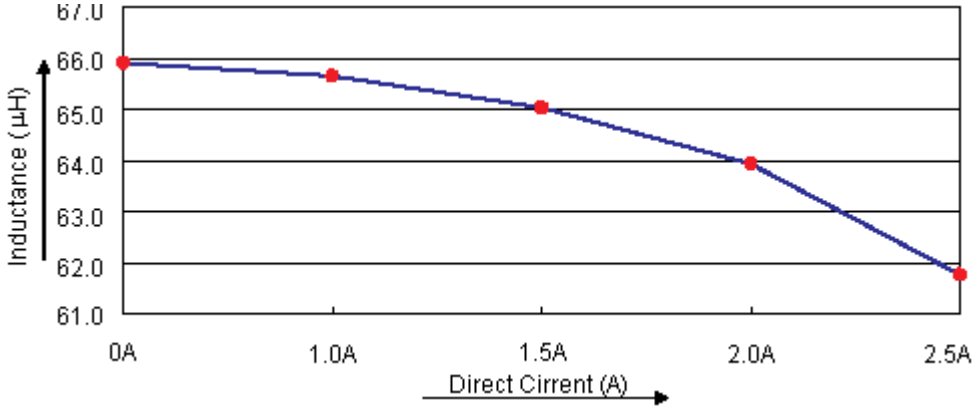
DRAWING TITLE: Inductor

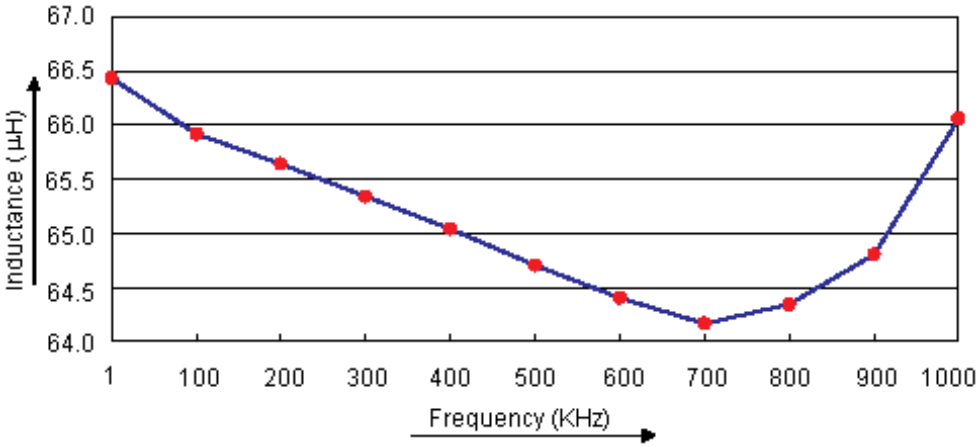
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10003469	**BFS7330-680MU**	A

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

PART NO.	REVISIONS								
MCBFS7330-680MU	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	-	A	RELEASED	Arun	19/2/11	Jagan	19/2/11	Farnell	7/3/11

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} = 2.2A**
Specification	**68 ±20%**	**138 (Maximum)**	**ΔT40°C (Maximum)**
1	68.7	101.5	OK
2	66.58	109.4	OK
3	66.87	104.6	OK
4	68.41	103.8	OK
5	67.9	104.5	OK
Average	**67.69**	**104.76**	**OK**

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Jagan	19/02/11
APPROVED BY:	DATE:
Farnell	07/03/11

DRAWING TITLE: Inductor

SIZE	DWG NO.	ELECTRONIC FILE	REV
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SCALE: NTS | U.O.M.: mm | SHEET: 2 OF 3

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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 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	N5D DR9.7 x 5.8 N5D RI12.7 x 5.7 x 10.8
2	Wire	Ø0.4mm x 1P 2UEWF155°C
3	Solder (Lead Free)	99.3%Sn / 0.7%Cu
4	Glue	TH320D / TH320-3
3	Base	C1270+03009-1 DAP

Part Number Table

Description	Part Number
Inductor, 68µH, 20%, 2.5A	MCBFS7330-680MU

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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DRAWING TITLE: Inductor

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