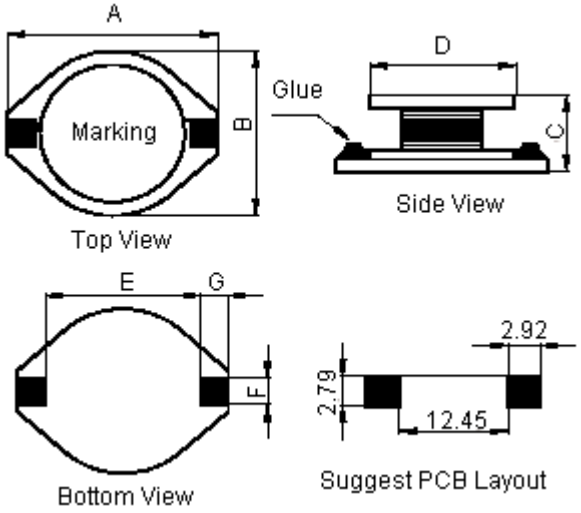
multicomp

PART NO.

MCBF7330-681MU

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

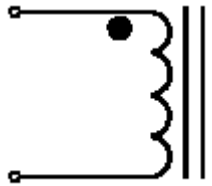


A	18.54 mm	Maximum
B	15.24 mm	Maximum
C	7.11 mm	Maximum
D	12.7 ±0.3 mm	-
E	12.92 mm	Reference
F	2.54 mm	Reference
G	2.54 mm	Reference

Dimensions : Millimetres

Marking : **681** **YY : Year**
YYWW **WW :Week**

Schematic Diagram



Note:

(1) Wire Ø0.25mm x 1P 2UEWF 155°C
(2) 99.5TS (Reference)

RoHS Compliant

Electrical Characteristics (at 25°C)

Test Condition		
100KHz 0.25V	L	680µH ±20%
at 25°C	DCR	1.1Ω (Maximum)
100KHz 0.25V I_{rms} = 0.72A	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	18.11	13.91	6.59	12.72	12.91	2.52	2.56
2	18.06	13.93	6.54	12.71	13.02	2.48	2.52
3	18.13	13.96	6.51	12.75	12.93	2.58	2.45
4	18.09	13.99	6.56	12.78	12.94	2.69	2.51
5	18.12	14.01	6.55	12.81	12.98	2.43	2.63
Average	**18.1**	**13.96**	**6.55**	**12.75**	**12.96**	**2.54**	**2.53**

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	M10003222	**BF7330-681MU**	A

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

PART NO.	REVISIONS									
MCBF7330-681MU	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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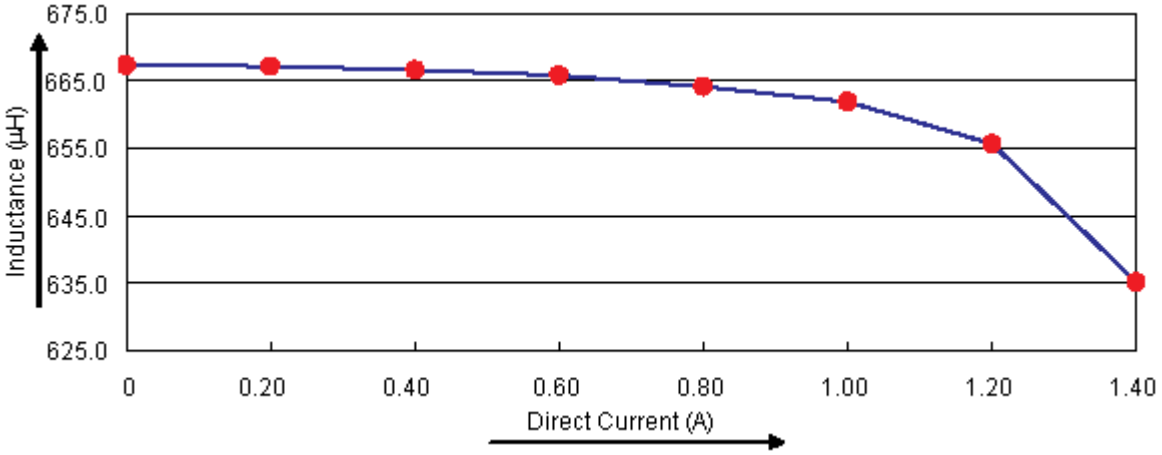
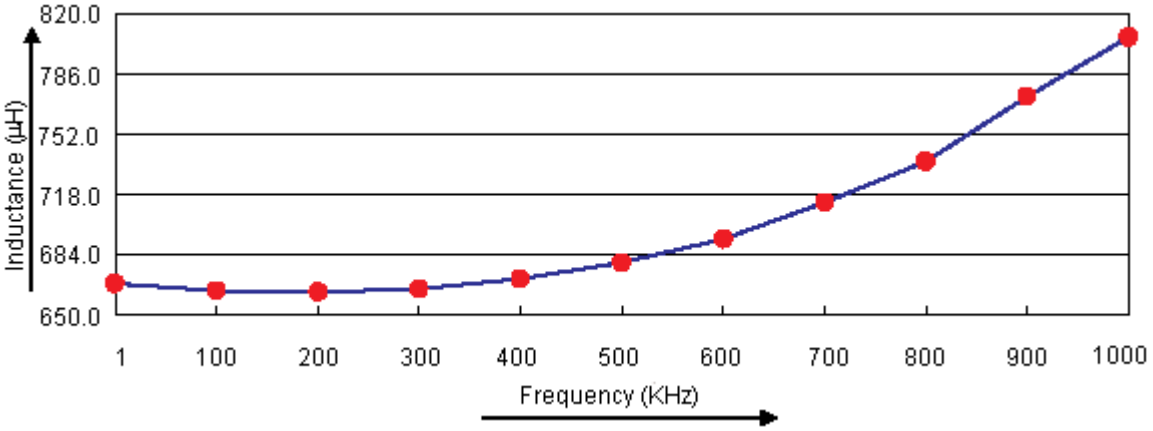
Electric Characteristics





Test Data for Electrical

Test Item	L µH	DCR Ω	ΔT
Condition	**100KHz 0.25V**	**at 25°C**	**100KHz 0.25V I_{rms} = 0.72A**
Specification	**680 ±20%**	**1.1 (Maximum)**	**Temperature Rise 40°C (Maximum)**
1	664.2	0.91	OK
2	660.6	0.92	OK
3	662.5		OK
4	669.8	0.9	OK
5	668.3	0.93	OK
Average	**665.08**	**0.916**	**OK**

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

DRAWING TITLE: Inductor

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

PART NO.	REVISIONS								
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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 5.6 C B5.8 F3.3
2	Wire	Ø0.25mm 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, 680µH, 20%, SMD	MCBF7330-681MU

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