



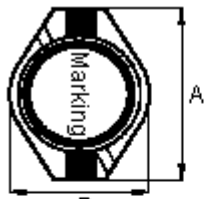
PART NO.

MCBFS7330-681MU

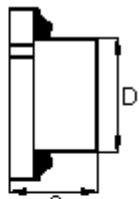
REVISIONS

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

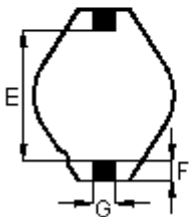
Configurations and Dimensions



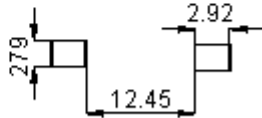
Top View



Side View



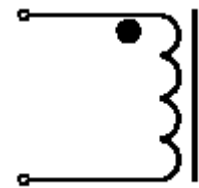
Bottom View



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 Ø0.22mm x 1P 2UEWF 155°C
- (2) 99.5TS (Reference)

Marking : 681
YYWW

YY : Year
WW : Week

Electrical Characteristics (at 25°C)

Test Condition		
100KHz 0.1V	L	680µH ±20%
at 25°C	DCR	1.4Ω (Maximum)
100KHz 0.1V I _{rms} = 0.7A	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	18.09	14.02	6.92	12.68	12.9	2.53	2.54
2	18.07	14.01	6.98	12.65	12.91	2.54	2.53
3	18.06		6.99	12.67	12.86	2.53	2.54
4	18.08		6.95	12.64	12.89	2.54	2.55
5	18.06	14.03	6.96	12.66	12.9	2.53	2.53
Average	18.07	14.02	6.96	12.66	12.89	2.53	2.54

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

DRAWING TITLE:

Inductor

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10003456	BFS7330-681MU	A
SCALE: NTS	U.O.M.: mm	SHEET: 1 OF 3	



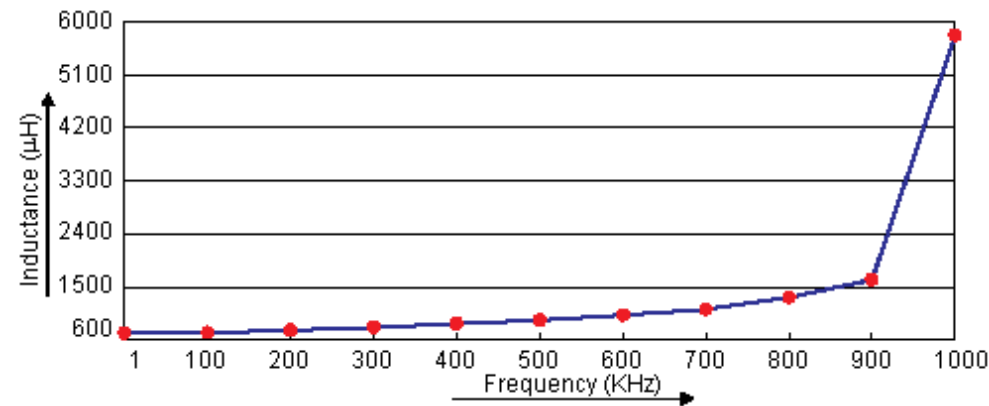
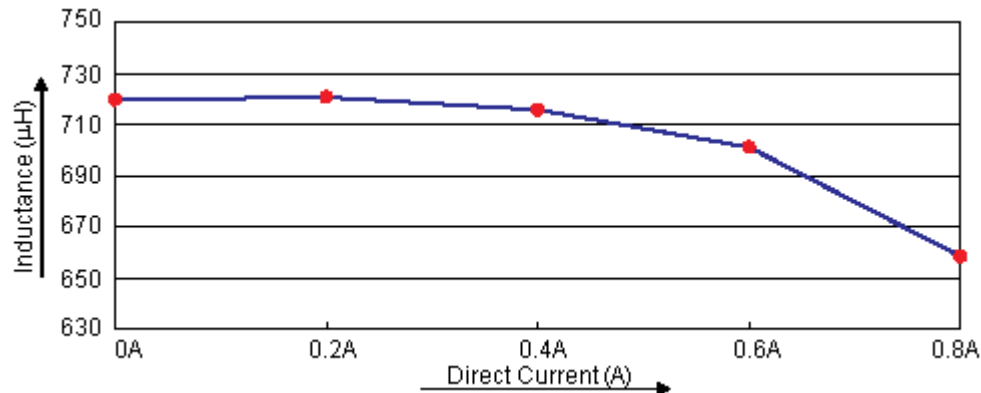
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-	A	RELEASED	Sidhu	19/2/11	Jagan	19/2/11	Farnell	07/3/11

Electric Characteristics



Test Data for Electrical

Test Item	L µH	DCR Ω	L at I _{rms} µH
Condition	100KHz 0.1V	at 25°C	100KHz 0.1V I _{rms} = 0.7A
Specification	680 ±20%	1.4 (Maximum)	ΔT40°C (Maximum)
1	680.5	1.056	OK
2	690.75	1.059	OK
3	696.75	1.06	OK
4	673.05	1.058	OK
5	684.85	1.06	OK
Average	685.18	1.059	OK

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APPROVED BY:	DATE:
Farnell	07/03/11

DRAWING TITLE:

Inductor

SIZE A	DWG NO. M10003456	ELECTRONIC FILE BFS7330-681MU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



PART NO.

MCBFS7330-681MU

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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 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	N5D DR9.7 x 5.8 N5D RI12.7 x 5.7 x 10.8
2	Wire	Ø0.22mm 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, 680µH, 20%, 800mA	MCBFS7330-681MU

<http://www.farnell.com>

<http://www.newark.com>

<http://www.cpc.co.uk>

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Farnell	07/03/11

DRAWING TITLE:

Inductor

SIZE A	DWG NO. M10003456	ELECTRONIC FILE BFS7330-681MU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 3 OF 3	