



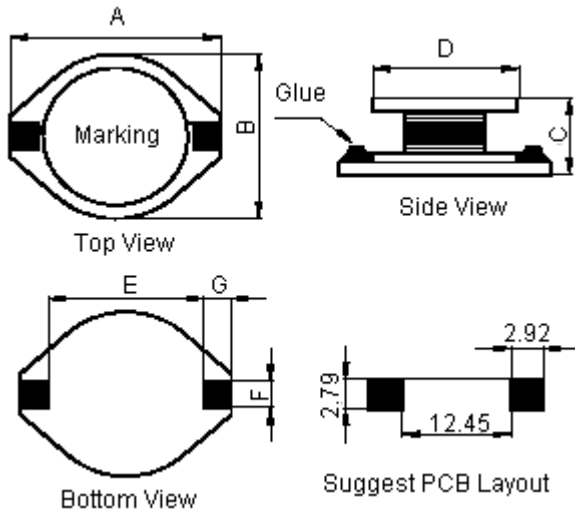
PART NO.

MCBF7330-391MU

REVISIONS

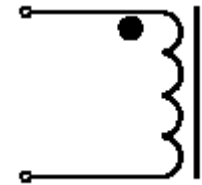
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Sidhu	14/2/11	Jagan	14/2/11	Farnell	28/2/11

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

Schematic Diagram



Note:

- (1) Wire Ø0.3mm x 1P 2UEWF 155°C
- (2) 77.5TS (Reference)

Marking : 391
YYWW

Dimensions : Millimetres

YY : Year
WW : Week

Electrical Characteristics (at 25°C)

Test Condition		
100KHz 0.25V	L	390µH ±20%
at 25°C	DCR	0.67Ω (Maximum)
100KHz 0.25V I _{rms} = 0.9A	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	6.25	12.6	13.06	2.53	2.49
2	18.06	13.93	6.37	12.56	13.05	2.54	2.53
3	18.13	13.96	6.33	12.53	13.07	2.52	2.51
4	18.09	13.99	6.22	12.64	12.99	2.51	2.49
5	18.12	14.01	6.21	12.59	13.08	2.55	2.53
Average	18.1	13.96	6.28	12.58	13.05	2.53	2.51

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

DRAWING TITLE:

Inductor

SIZE A	DWG NO. M10003219	ELECTRONIC FILE BF7330-391MU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 1 OF 3	



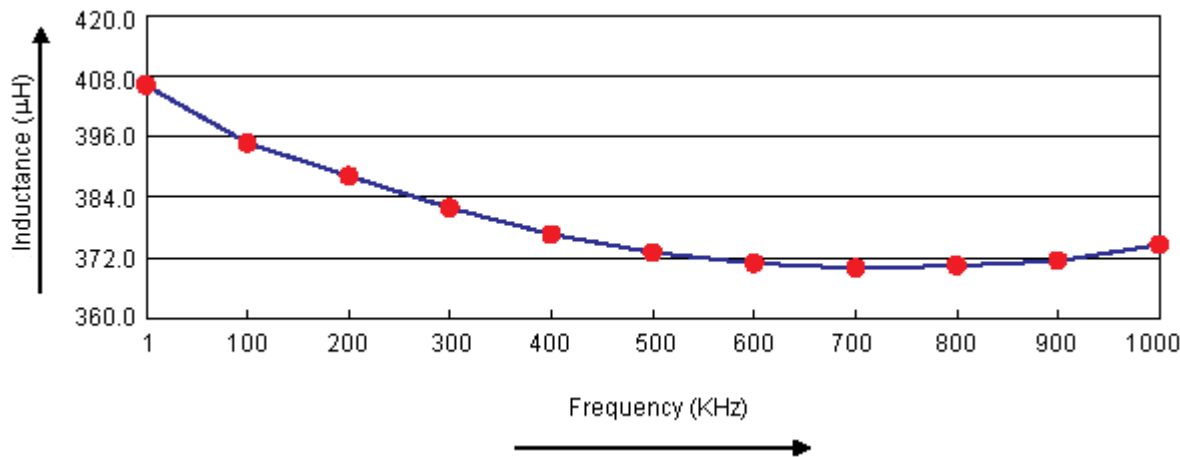
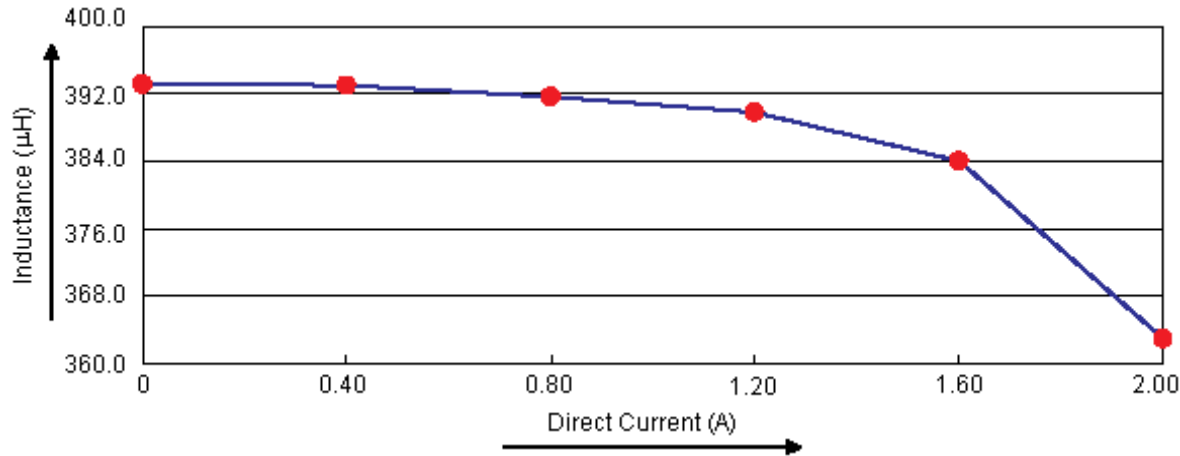
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Electric Characteristics



Test Data for Electrical

Test Item	L µH	DCR Ω	ΔT
Condition	100KHz 0.25V	at 25°C	100KHz 0.25V I _{rms} = 0.9A
Specification	390 ±20%	0.67 (Maximum)	Temperature Rise 40°C (Maximum)
1	397.16	0.513	OK
2	391.58	0.524	OK
3	392.4	0.522	OK
4	389.54	0.519	OK
5	396.26	0.515	OK
Average	393.39	0.519	OK

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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 5.6C B5.8 F3.3
2	Wire	Ø0.3mm 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, 390µH, 20%, SMD	MCBF7330-391MU

<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	