



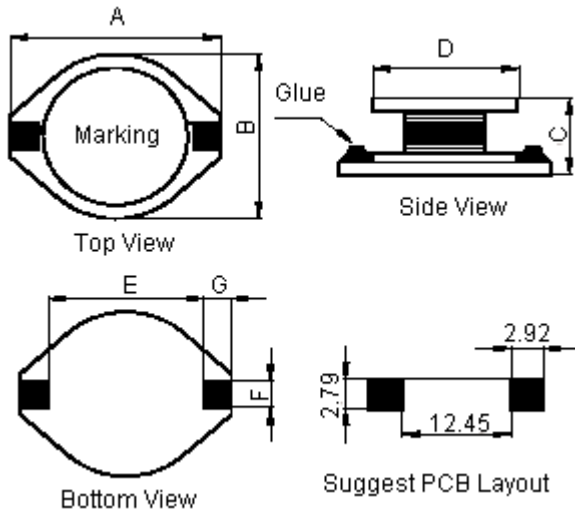
PART NO.

MCBF7344-302KU

REVISIONS

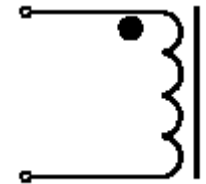
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Sidhu	14/2/11	Jagan	14/2/11	Farnell	28/2/11

Configurations and Dimensions



A	18.54 mm	Maximum
B	15.24 mm	Maximum
C	12. 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 Ø0.23mm x 1P 2UEWF 155°C
- (2) 245.5TS (Reference)

Dimensions : Millimetres

Marking : 302
YYWW

YY : Year
WW :Week

Electrical Characteristics (at 25°C)

Test Condition		
100KHz 0.25V	L	3mH ±10%
at 25°C	DCR	3.5Ω (Maximum)
100KHz 0.25V I _{rms} = 0.4A	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	Dmm	E mm	F mm	G mm
Specification	18.54 (Maximum)	15.24 (Maximum)	12 (Maximum)	12.7 ±0.3	12.92 (Reference)	2.54 (Reference)	2.54 (Reference)
1	18.11	13.91	10.98	12.76	12.99	2.59	2.54
2	18.13	13.95	11.01	12.78	13	2.46	2.53
3	18.12	14.01	10.99	12.73	12.98	2.51	2.48
4	18.09	13.98	10.98	12.78	12.93	2.61	2.53
5	18.08	13.96	11.01	12.74	12.95	2.46	2.6
Average	18.11	13.96	10.99	12.76	12.97	2.53	2.54

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Farnell	28/02/11

DRAWING TITLE:

Inductor

SIZE A	DWG NO. M10003223	ELECTRONIC FILE BF7344-302KU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 1 OF 3	



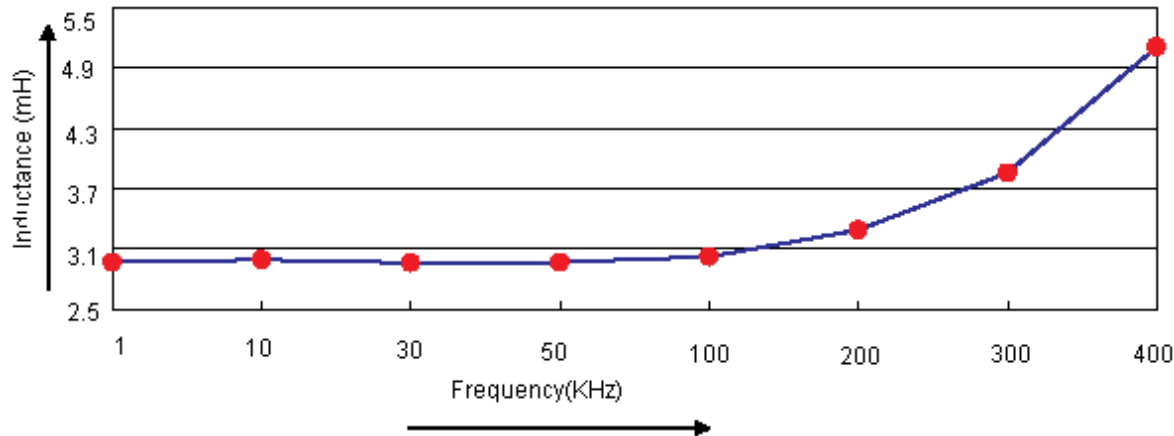
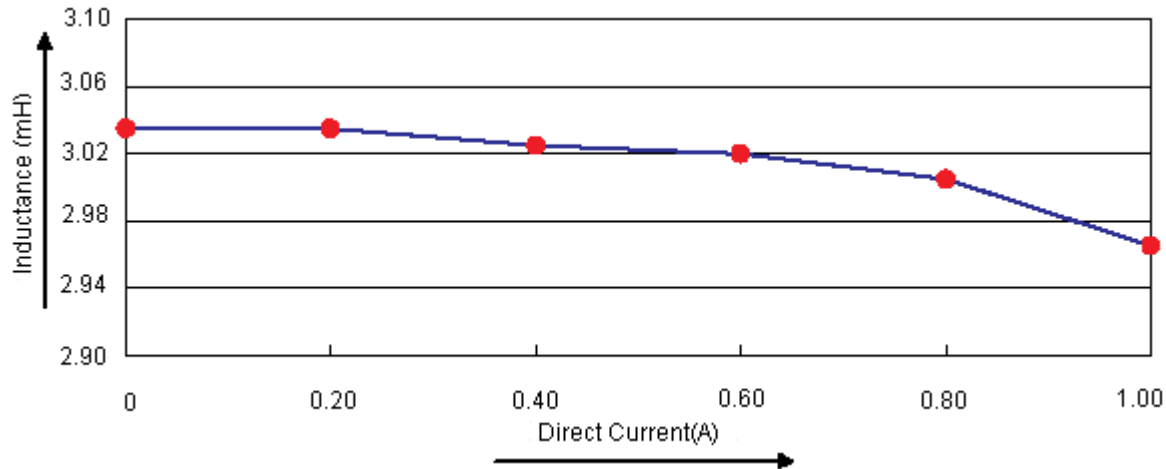
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Electric Characteristics



Test Data for Electrical

Test Item	L mH	DCR Ω	ΔT
Condition	100KHz 0.25V	at 25°C	100KHz 0.25V I _{rms} = 0.4A
Specification	3 ±10%	3.5 (Maximum)	Temperature Rise 40°C (Maximum)
1	3.04	2.77	OK
2		2.78	OK
3	3.03	2.77	OK
4	3.05		OK
5	3.04	2.78	OK
Average	3.04	2.774	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 10C B6.5 F7.0
2	Wire	Ø0.23mm 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, SMD, 3MH, 10%	MCBF7344-302KU

<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	