



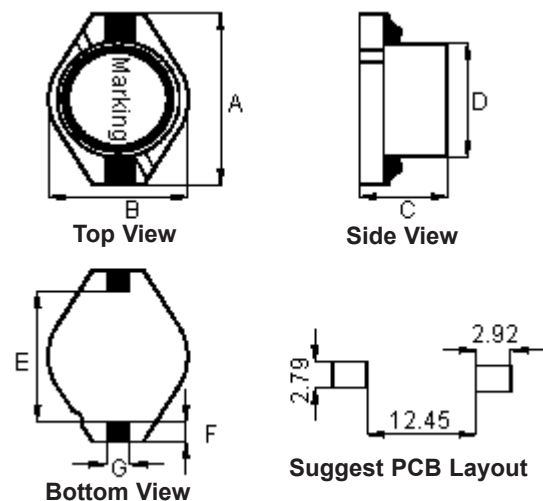
PART NO.

MCBFS7330-100MU

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	SHA	20/4/11	SID	20/4/11		04/5/11

Configurations and Dimensions



Dimensions : Millimetres

Marking: 100 YY : Year
YYWW WW : Week

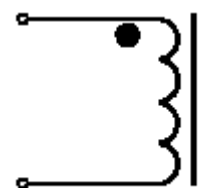
Electrical Characteristics (at 25°C)

Test Condition		
100 KHz 0.1 V	L	10 μ H \pm 20%
at 25°C	DCR	40 m Ω (Max.)
100 KHz 0.1 V I_{rms} = 3.9 A	L at I_{rms}	Δ T 40°C (Max.)

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

Note : I_{rms} : Temperature rise 40°C

Schematic Diagram



Note:

- Wire \varnothing 0.4mm \times 2P 2UEWF 155°C
- 12.5TS (Reference)



Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm	G mm
Specification	18.54 (Max.)	15.24 (Max.)	7.62 (Max.)	12.7 \pm 0.3	12.7 (Ref.)	2.54 (Ref.)	2.54 (Ref.)
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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SHA

DATE:

20/04/11

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SID

DATE:

20/04/11

APPROVED BY:

DATE:

04/05/11

DRAWING TITLE:

Inductor

SIZE
A

DWG NO.

M10003451

ELECTRONIC FILE

MCBFS7330-100MU

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



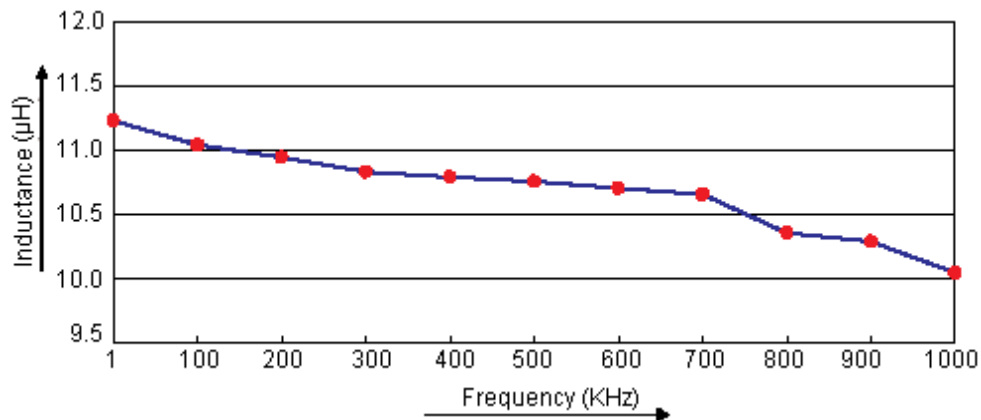
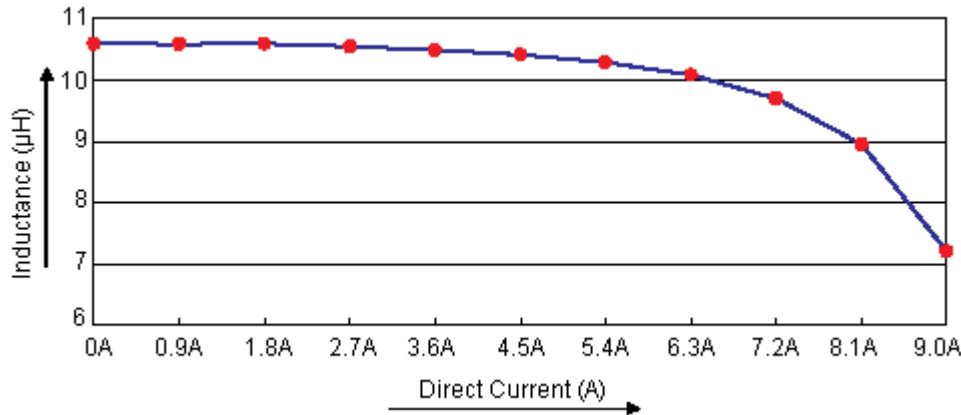
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Electric Characteristics



Test Data for Electrical

Test Item	L μH	DCR mΩ	L at I _{rms} μH
Condition	100 KHz 0.1 V	at 25°C	100 KHz 0.1 V I _{rms} = 3.9 A
Specification	10 ±20%	40 (Max.)	ΔT 40°C (Max.)
1	10.35	22.08	OK
2	10.27	22.03	
3	10.51	21.97	
4	10.49	21.7	
5	10.45	21.94	
Average	10.41	21.94	OK

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04/05/11

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Inductor

SIZE
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DWG NO.

M10003451

ELECTRONIC FILE
MCBFS7330-100MUREV
A

SCALE: NTS

U.O.M.: mm

SHEET: 2 OF 3



PART NO.

MCBFS7330-100MU

REVISIONS

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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 hrs 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 hrs Solder : Lead-free solder Solder temperature : 260 ±5°C Dip time : 5 +0 / -0.5 s

Material List

No.	Item	Material Description
1	Core	N5D DR9.7 × 5.8 N5D RI12.7 × 5.7 × 10.8
2	Wire	Ø0.4 mm × 2P 2UEWF 155°C
3	Solder (Lead-free)	Sn99.3% / Cu0.7%
4	Glue	TH320D / TH320-3
5	Base	DR13-RT-A DAP

Part Number Table

Description	Part Number
Inductor, 10µH, 20%, 6.5A	MCBFS7330-100MU

<http://www.element14.com><http://www.farnell.com><http://www.newark.com>

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SHEET: 3 OF 3