



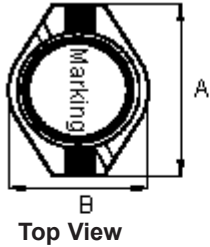
PART NO.

MCBFS7330-330MU

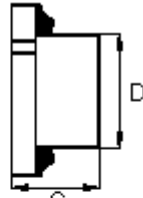
REVISIONS

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

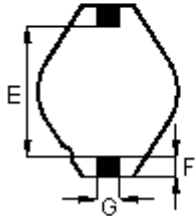
Configurations and Dimensions



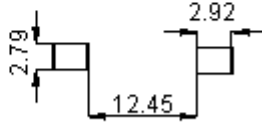
Top View



Side View



Bottom View

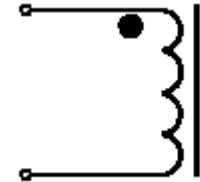


Suggest PCB Layout

Dimensions : Millimetres

A	18.54 mm	(Max.)
B	15.24 mm	
C	7.62 mm	
D	12.7 ±0.3 mm	-
E	12.7 mm	(Ref.)
F	2.54 mm	
G		

Schematic Diagram



Note:

1. Wire Ø0.4mm × 1P 2UEWF 155°C
2. 21.5TS (Reference)



Marking: 330 YY : Year  
YYWW WW : Week

Electrical Characteristics (at 25°C)

Test Condition		
100 KHz 0.1 V	L	33 µH ±20%
at 25°C	DCR	75 mΩ (Max.)
100 KHz 0.1 V I <sub>rms</sub> = 2.9 A	L at I <sub>rms</sub>	ΔT 40°C (Max.)

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

Note : I<sub>rms</sub> : 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 (Max.)	15.24 (Max.)	7.62 (Max.)	12.7 ±0.3	12.7 (Ref.)	2.54 (Ref.)	2.54 (Ref.)
1	17.95	14.01	6.94	12.55	12.45	2.41	2.58
2	17.93	14.02	6.91				
3	17.99	13.98	6.95	12.66	12.48	2.44	2.44
4	17.95	14.02		12.67	12.47	2.45	2.43
5	17.96	14.05	6.97	12.62	12.55	2.43	2.58
Average	17.96	14.02	6.94		12.5	2.43	2.52

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APPROVED BY:

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20/04/11

DATE:

20/04/11

DATE:

04/05/11

DRAWING TITLE:

Inductor

SIZE  
A

DWG NO.

M10003467

ELECTRONIC FILE  
MCBFS7330-330MU

REV  
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



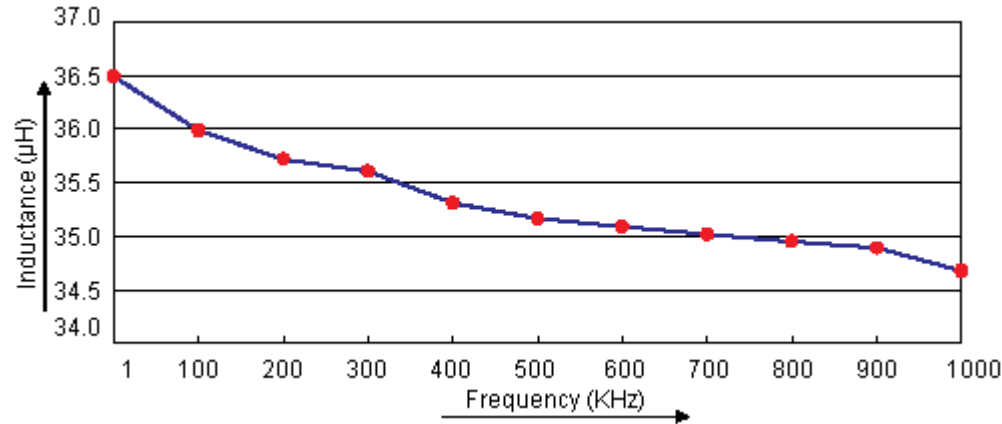
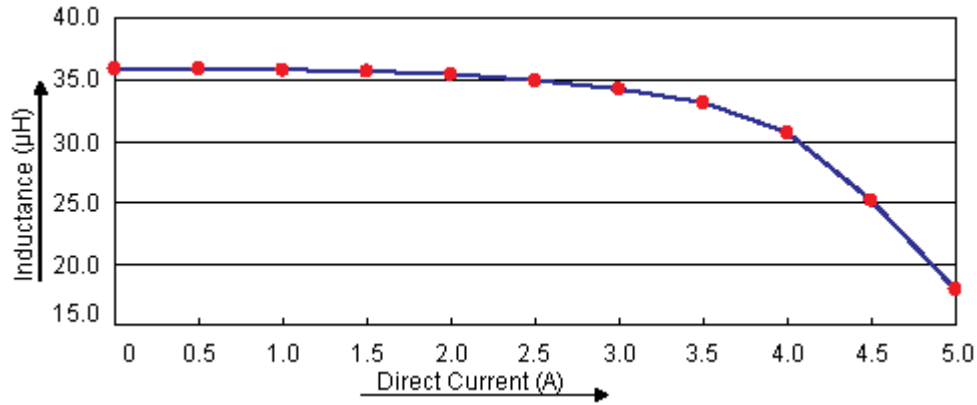
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MCBFS7330-330MU

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Electric Characteristics



Test Data for Electrical

Test Item	L µH	DCR mΩ	L at I <sub>rms</sub> µH
Condition	100 KHz 0.1 V	at 25°C	100 KHz 0.1 V I <sub>rms</sub> = 2.9 A
Specification	33 ±20%	75 (Max.)	ΔT 40°C (Max.)
1	31.09	71.53	OK
2	31.32	71.54	
3	30.98	71.67	
4	30.92	71.14	
5	30.98	71.12	
Average	31.058	71.4	OK

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	04/05/11

DRAWING TITLE:

**Inductor**

SIZE <b>A</b>	DWG NO. <b>M10003467</b>	ELECTRONIC FILE MCBFS7330-330MU	REV <b>A</b>
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



PART NO.

MCBFS7330-330MU

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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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 R112.7 × 5.7 × 10.8
2	Wire	Ø0.4 mm × 1P 2UEWF (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%
4	Glue	TH320D / TH320-3
3	Base	C1270+03009-1 DAP

Part Number Table

Description	Part Number
Inductor, 33µH, 20%, 3.6A	MCBFS7330-330MU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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	04/05/11

DRAWING TITLE:

**Inductor**

SIZE <b>A</b>	DWG NO. <b>M10003467</b>	ELECTRONIC FILE MCBFS7330-330MU	REV <b>A</b>
SCALE: NTS	U.O.M.: mm	SHEET: 3 OF 3	