



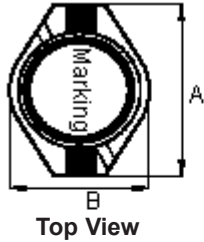
PART NO.

MCBFS7330-150MU

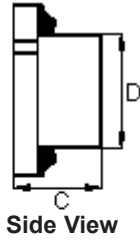
REVISIONS

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

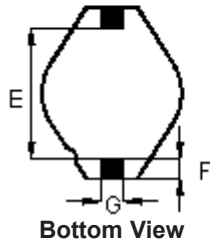
Configurations and Dimensions



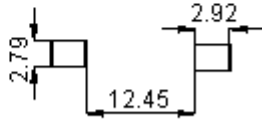
Top View



Side View



Bottom View

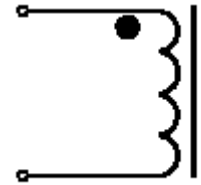


Suggest PCB Layout

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 Ø0.37mm × 2P 2UEWF 155°C
2. 15.5TS (Reference)



Marking: 150 YY : Year
YYWW WW : Week

Electrical Characteristics (at 25°C)

Test Condition		
100 KHz 0.1 V	L	15 µH ±20%
at 25°C	DCR	48 mΩ (Max.)
100 KHz 0.1 V I _{rms} = 3.5 A	L at I _{rms}	ΔT 40°C (Max.)

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 (Max.)	15.24 (Max.)	7.62 (Max.)	12.7 ±0.3	12.7 (Ref.)	2.54 (Ref.)	2.54 (Ref.)
1	18.06	14.01	7.02	12.68	12.86	2.54	2.54
2	18.07	14	6.99	12.74	12.89		2.53
3	18	14.06	7.01	12.73	12.86		2.52
4	18.09	14	6.95	12.65	12.85	2.51	2.53
5	18.06	14.03	6.96	12.66	12.89		2.52
Average	18.06	14.02	6.99	12.69	12.87	2.53	2.53

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SHA

DATE:

20/04/11

CHECKED BY:

SID

DATE:

20/04/11

APPROVED BY:

DATE:

20/04/11

DRAWING TITLE:

Inductor

SIZE

A

DWG NO.

M10003451

ELECTRONIC FILE

MCBFS7330-150MU

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



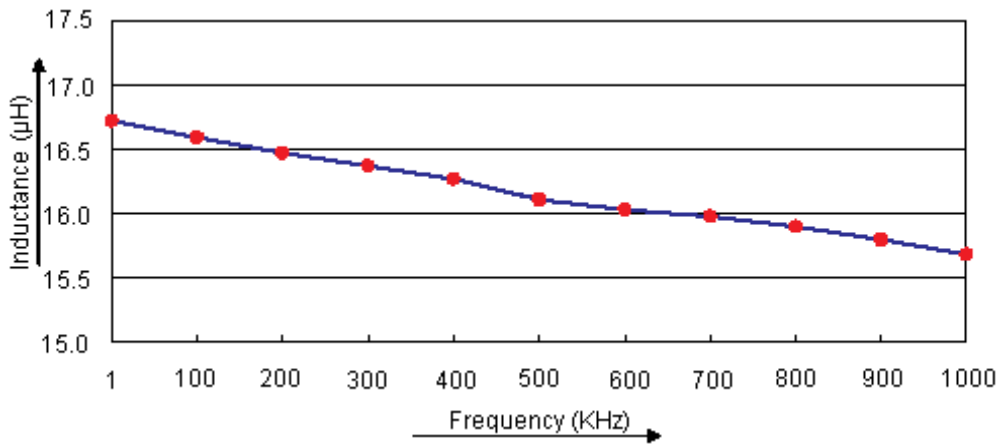
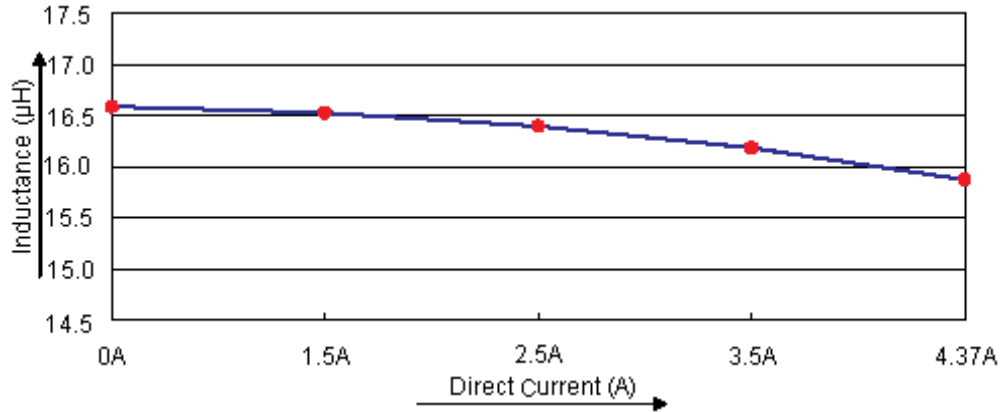
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Electric Characteristics



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} = 3.5 A
Specification	15 ±20%	48 (Max.)	ΔT 40°C (Max.)
1	15.73	29.43	OK
2	15.79	30.21	
3	15.77	30.36	
4	16.01	30.18	
5	16.06	30.9	
Average	15.87	30.22	OK

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DATE:

20/04/11

DATE:

20/04/11

DRAWING TITLE:

Inductor

SIZE
A

DWG NO.

M10003451

ELECTRONIC FILE

MCBFS7330-150MU

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 2 OF 3



PART NO.

MCBFS7330-150MU

REVISIONS

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

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 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 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	Ø0.37 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, 15µH, 20%, 5.3A	MCBFS7330-150MU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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CHECKED BY:	DATE:
SID	20/04/11
APPROVED BY:	DATE:
	04/5/11

DRAWING TITLE:

Inductor

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10003451	MCBFS7330-150MU	A
SCALE: NTS	U.O.M.: mm	SHEET: 3 OF 3	