



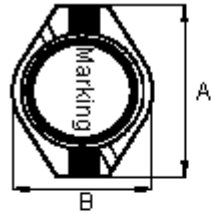
PART NO.

MCBFS7330-220MU

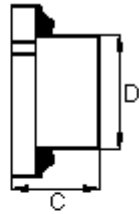
REVISIONS

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

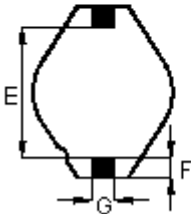
Configurations and Dimensions



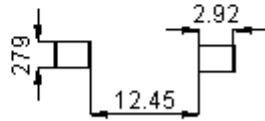
Top View



Side View



Bottom View

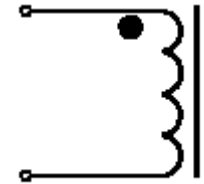


Suggest PCB Layout

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 Ø0.32mm × 2P 2UEWF 155°C
2. 18.5TS (Reference)



Marking: 220 YY : Year
YYWW WW : Week

Electrical Characteristics (at 25°C)

Test Condition		
100 KHz 0.1 V	L	22 µH ±20%
at 25°C	DCR	59 mΩ (Max.)
100 KHz 0.1 V I _{rms} = 3.4 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	17.95	14.07	7	12.68	12.86	2.53	2.51
2	17.91	14.01	6.95	12.74	12.89	2.54	2.54
3	17.9	14.03	6.99	12.73	12.86	2.53	2.57
4	17.98	14.01	6.96	12.65	12.85	2.54	2.54
5	17.97	14.03	6.98	12.66	12.89	2.57	2.53
Average	17.94	14.03	6.98	12.69	12.87	2.54	2.54

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20/4/11

DATE:

04/5/11

DRAWING TITLE:

Inductor

SIZE
A

DWG NO.

M10003465

SCALE: NTS

U.O.M.: mm

ELECTRONIC FILE
MCBFS7330-220MU

REV
A

SHEET: 1 OF 3



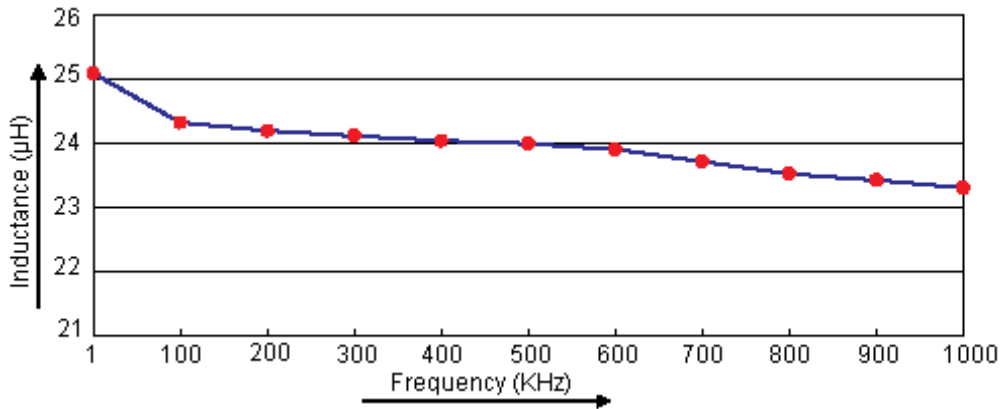
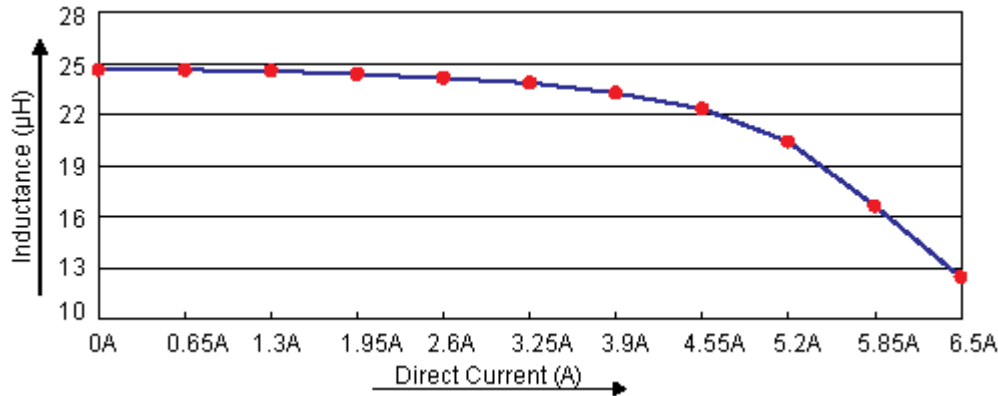
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Electric Characteristics



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} = 3.4 A
Specification	22 ±20%	59 (Max.)	ΔT 40°C (Max.)
1	23.66	46.21	OK
2	24.47	46.98	
3	24.15	46.5	
4	24.21	46.79	
5	25.4	46.46	
Average	24.38	46.59	OK

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Inductor

SIZE A	DWG NO. M10003465	ELECTRONIC FILE MCBFS7330-220MU	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 2 OF 3	



PART NO.

MCBFS7330-220MU

REVISIONS

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Test Data for Electrical

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 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	Ø0.32 mm × 2P 2UEWF (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%
4	Glue	TH320D / TH320-3
3	Base	DR13-RT-A DAP

Part Number Table

Description	Part Number
Inductor, 22µH, 20%, 4.4A	MCBFS7330-220MU

<http://www.element14.com>

<http://www.farnell.com>

<http://www.newark.com>

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	04/5/11

DRAWING TITLE:

Inductor

SIZE A	DWG NO. M10003465	ELECTRONIC FILE MCBFS7330-220MU	REV A
SCALE: NTS		U.O.M.: mm	SHEET: 3 OF 3