

Ceramic High Pass Filter

50Ω 1220 to 4600 MHz

HFCN-1200+
HFCN-1200



Maximum Ratings

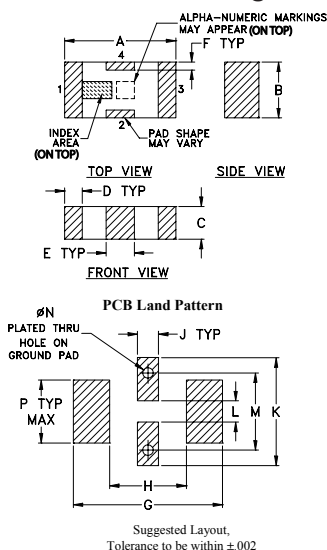
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	7W max. at 25°C

* Passband rating, derate linearly to 3W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing

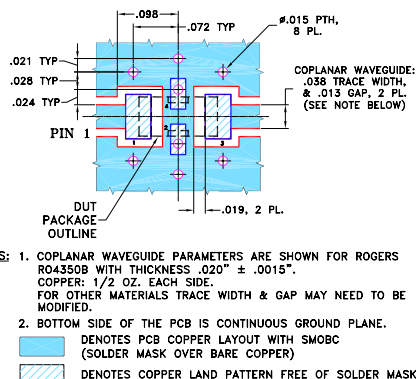


Outline Dimensions (inch)

A	B	C	D	E	F	G
.126	.063	.037	.020	.032	.009	.169
3.20	1.60	0.94	0.51	0.81	0.23	4.29

H	J	K	L	M	N	P	wt
.087	.024	.122	.024	.087	.012	.071	grams
2.21	0.61	3.10	0.61	2.21	0.30	1.80	.020

Demo Board MCL P/N: TB-270 Suggested PCB Layout (PL-137)



Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

Features

- low cost
- small size
- 7 sections
- temperature stable
- hermetically sealed
- LTCC construction
- excellent power handling, 7W

Applications

- sub-harmonic rejection
- transmitters/receivers
- lab use

CASE STYLE: FV1206
PRICE: \$1.99 ea. QTY (20)

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



Available Tape and Reel at no extra cost

Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500, 1000, 3000

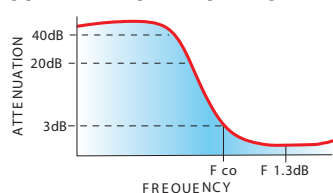
Electrical Specifications^(1,2) at 25°C

STOP BAND (MHz)	f _{co} , MHz	PASSBAND (MHz)	VSWR (:1)	POWER INPUT (W)	NO. OF SECTIONS
Min.	Nom.		Typ.		
(loss > 40 dB)	(loss > 20 dB)	(loss < 1.3 dB) (loss < 2 dB)	Frequency (MHz)		
	Typ.	Max. Typ.	Stopband 1.5:1		
750 910	1180	1380-4000 1220-4600	20:1 1300-3200	7	7

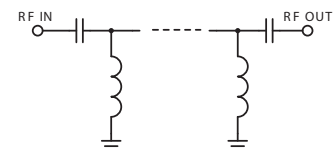
(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required. Alternatively, Mini-Circuits' "D" suffix version of this model will provide >100 MOhm isolation to ground.

(2) Measured on Mini-Circuits Characterization Test Board TB-270.

typical frequency response

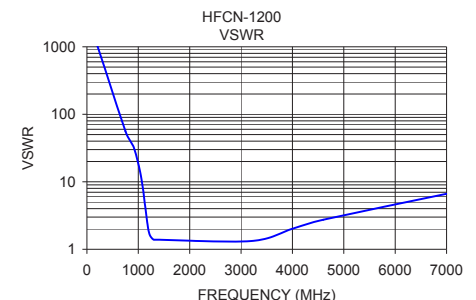
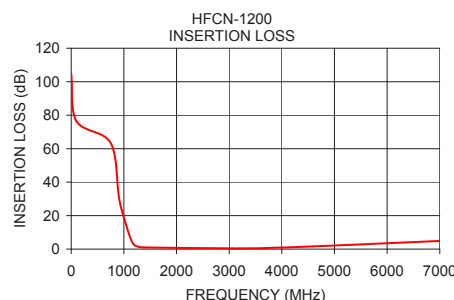


electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	104.60	1737.18
100.00	76.44	1737.18
750.00	63.39	56.04
910.00	30.29	32.79
1050.00	13.74	12.35
1130.00	6.09	4.53
1180.00	3.15	2.35
1220.00	2.01	1.65
1300.00	1.24	1.39
1380.00	0.98	1.39
3200.00	0.44	1.33
4000.00	0.93	2.01
4600.00	1.62	2.73
7000.00	4.86	6.63



www.minicircuits.com P.O. Box 35166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

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M125148
HFCN-1200
EDR-6251/1
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140115