Ceramic **High Pass Filter**

500

1400 to 5000 MHz

Maximum Ratings

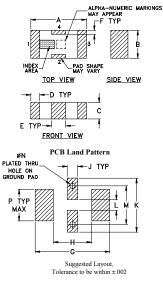
Operating Temperature	-55°C to 100°C			
Storage Temperature	-55°C to 100°C			
RF Power Input*	7W max. at 25°C			
* Passband rating, derate linearly to 3W at 100°C ambient.				

Permanent damage may occur if any of these limits are exceeded.

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

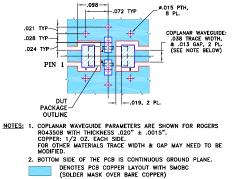
Outline Drawing



Outline Dimensions (inch)

	.169	.009	E .032 0.81	.020	.037	B .063 1.60	A .126 3.20
wt grams .020	.071	.012	.087	.024	.122		H .087 2.21

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



DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

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





+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

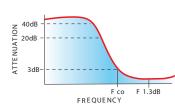
Available Tape and Reel at no extra cost	
Reel Size Devices/Reel	
7" 20, 50, 100, 200, 500,1000, 3000	0

Electrical Specifications¹ at 25°C

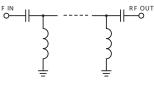
STOP (MI Mi	Hz)	fco, MHz Nom.	PASSI (Mł			R (:1) /p.	POWER INPUT (W)	NO. OF SECTIONS
		(loss 3 dB)	(loss < 1.3 dB)	(loss < 2 dB)		Frequency (MHz)		
(loss > 40 dB)	(loss > 20 dB)	Тур.	Max.	Тур.	Stopband	1.5:1		
880	1060	1320	1700-3800	1400-5000	20:1	1700-3700	7	7

1. Coupling capacitors at input and output are recommended for use in applications requiring DC isolation of input and output ports to ground As an alternative to using coupling capacitors, you may use the "D" version of this model.

typical frequency response



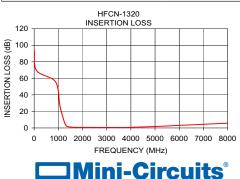
electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)		
1.00	94.16	1737.18
100.00	69.34	217.15
880.00	55.96	49.64
1060.00	27.72	27.59
1180.00	13.92	12.18
1260.00	6.40	4.64
1320.00	2.97	2.12
1400.00	1.55	1.42
1700.00	0.75	1.31
3700.00	0.55	1.41
3800.00	0.59	1.49
5000.00	1.76	2.81
6000.00	3.08	4.13
8000.00	5.76	7.66

VSWR



HFCN-1320 VSWR 1000 100 10 0 1000 2000 3000 4000 5000 6000 7000 8000 FREQUENCY (MHz)

> For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine The Design Engineers Search Engineers Search Engine The Design Engineers Se ISO 9001 ISO 14001 AS 9100 CE IF/RF MICROWAVE COMPONENTS



REV. H M125148 HFCN-1320 EDR-6437/2 AD/RS/CP/AM 111223

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuit's 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", Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms", Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp.