# Ceramic **High Pass Filter**

## **50**Ω

# 1400 to 5000 MHz

## **Maximum Ratings**

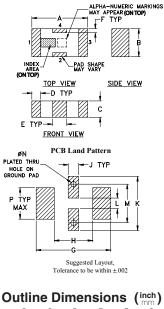
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	7W max. at 25°C
* Passband rating, derate linearly to 3W	at 100°C ambient.

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

### **Pin Connections**

RF IN	1
RF OUT	3
GROUND	2,4

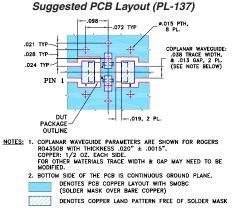
### **Outline Drawing**



### D А В С Е F G 126 063 037 020 032 009 169 3.20 1.60 0.94 0.51 0.81 0.23 4.29 Н P Ν wt .087 .024 .122 .024 .087 .012 .071 grams

### 2.21 3.10 0.61 2.21 0.30 1.80 0.61 Demo Board MCL P/N: TB-270

.020



### 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

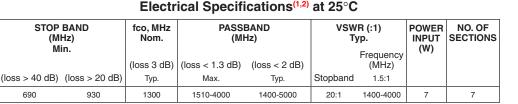
REV. K M158161 HFCN-1300+ EDR-6437/6 AD/RS/CP/AM 160921 Page 1 of 1

# **Features**

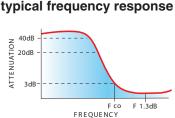
- low cost
- small size
- 7 sections
- temperature stable hermetically sealed
- LTCC construction
- excellent power handling, 7W

## **Applications**

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



(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.



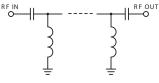
## electrical schematic

VSWR

3000 4000

FREQUENCY (MHz)

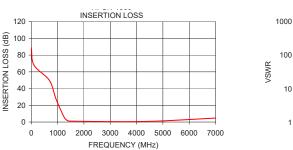
5000 6000 7000



## Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	89.20	868.59
100.00	68.18	868.59
690.00	49.67	72.39
930.00	28.30	39.49
1150.00	12.20	14.74
1230.00	6.92	7.11
1300.00	3.49	3.39
1400.00	1.44	1.61
1510.00	1.01	1.36
3000.00	0.51	1.34
4000.00	0.53	1.25
5000.00	1.39	2.32
7000.00	4.70	6.24

0 1000 2000





for RoHS Compliance methodologies and qualifications Available Tape and Reel at no extra cost

**HFCN-1300+** 

Generic photo used for illustration purposes only

CASE STYLE: FV1206

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site

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

Mini-Circuits

www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

## Electrical Specifications<sup>(1,2)</sup> at 25°C

# **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Mini-Circuits: HFCN-1300+