# Ceramic **High Pass Filter**

# **HFCN-1300**

### **50**Ω

# 1400 to 5000 MHz

#### **Maximum Ratings**

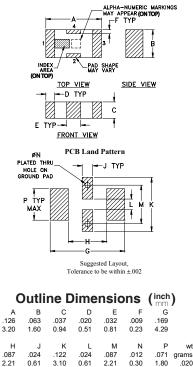
Operating Temperature	-55°C to 100°C					
Storage Temperature	-55°C to 100°C					
RF Power Input*	7W max. at 25°C					
* Passband rating, derate linearly to 3W at 100°C ambient.						

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

#### **Pin Connections**

RF IN	1
RF OUT	3
GROUND	2,4

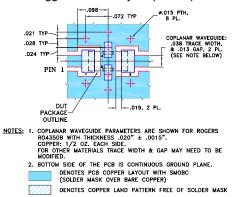
#### **Outline Drawing**



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

wt

.020



Notes

#### **Features**

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

# 0 Applications

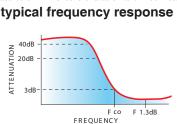
- sub-harmonic rejection
- transmitters/receivers
- lab use

Generic photo used for illustration purposes only
CASE STYLE: FV1206

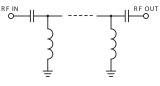
#### Electrical Specifications<sup>(1,2)</sup> at 25°C

STOP BAND (MHz) Min.		fco, MHz Nom.	z PASSBAND (MHz)		VSWR (:1) Typ.		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		
690	930	1300	1510-4000	1400-5000	20:1	1400-4000	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.

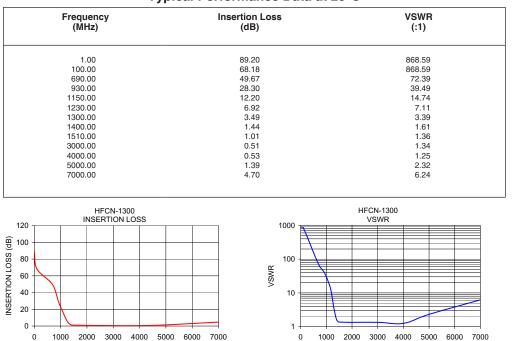


#### electrical schematic



FREQUENCY (MHz)

## Typical Performance Data at 25°C



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

FREQUENCY (MHz)

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