# Ceramic **High Pass Filter**

# **50**Ω

# 1400 to 5000 MHz

### **Maximum Ratings**

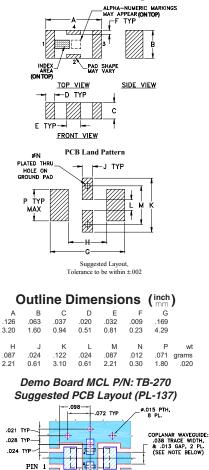
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	7W max. at 25°C
* Passband rating derate linearly to :	3W at 100°C ambient

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

### **Pin Connections**

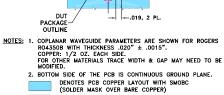
RF IN	1
RF OUT	3
GROUND	2,4

#### Outline Drawing



w

020



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



**HFCN-1320+** 

Generic photo used for illustration purposes only CASE STYLE: FV1206

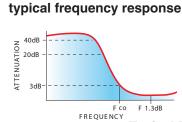
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



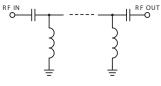
			Electr	ical Specifi	cations <sup>(1,2)</sup>	at 25°C	;		
	STOP BAND (MHz) Min.		fco, MHz Nom.	PASSBAND (MHz)		VSWR (:1) Typ.			NO. OF SECTIONS
	IVI	in.	(loss 3 dB)	(loss < 1.3 dB)	(loss < 2 dB)		Frequency (MHz)	(W)	
(lo	oss > 40 dB)	(loss > 20  dB)	Тур.	Max.	Тур.	Stopband	1.5:1		
	880	1060	1320	1700-3800	1400-5000	20:1	1700-3700	7	7

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

(2) 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.



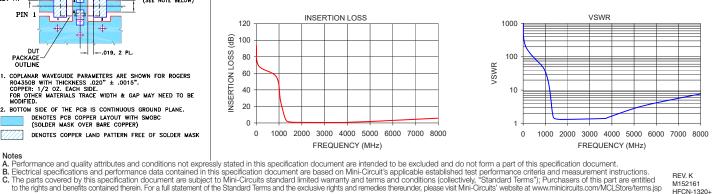
#### electrical schematic



# Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
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





# Mini-Circuits

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