# Ceramic **High Pass Filter**

### **50**Ω

## 1400 to 5000 MHz

### **Maximum Ratings**

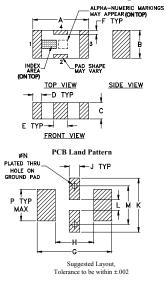
Operating Temperature	-55°C to 100°C		
Storage Temperature	-55°C to 100°C		
RF Power Input*	7W max. at 25°C		
Max. DC Voltage at pins 1&3	25 VDC		
* Passband rating, derate linearly to 3W at 100°C ambient			

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

### **Pin Connections**

RF IN	1
RF OUT	3
GROUND	2,4

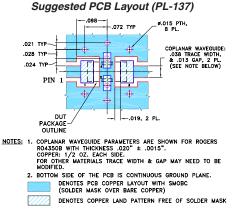
#### Outline Drawing



### Outline Dimensions (inch)

	G	F	E	D	С	В	Α
	.169	.009	.032	.020	.037	.063	.126
	4.29	0.23	0.81	0.51	0.94	1.60	3.20
wt	P	N	M	L	K	J	н
grams	.071	.012	.087	.024	.122	.024	.087
.020	1.80	0.30	2.21	0.61	3.10	0.61	2.21

### Demo Board MCL P/N: TB-270



### **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





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

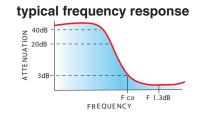


(MI	STOP BAND (MHz) Min.		PASSBAND (MHz)			R (:1) /p.	POWER INPUT (W)	NO. OF SECTIONS
IVII		(loss 3 dB)	(loss < 1.3 dB)	(loss < 2 dB)		Frequency (MHz)	(**)	
(loss > 40  dB)	(loss > 20  dB)	Тур.	Max.	Тур.	Stopband	1.5:1		
880	1060	1320	1700-3800	1400-5000	20:1	1700-3700	7	7

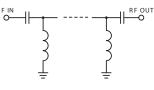
Electrical Specifications<sup>1,2</sup> at 25°C

1. DC Resistance to ground is 100 Mohms min.

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

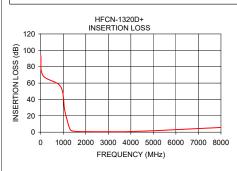


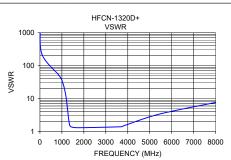
### electrical schematic



### 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	





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 Circuitto applicable stated in the specification document.

Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. The parts covered by this specification document are subject to Mini-Circuit 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

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