# Ceramic **High Pass Filter**

### **50**Ω

### 1950 to 4750 MHz

#### **Maximum Ratings**

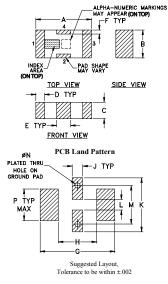
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	7W max. at 25°C
* Passband rating, derate linearly to	

Permanent damage may occur if any of these limits are exceeded

#### **Pin Connections**

RF IN	1
RF OUT	3
GROUND	2,4

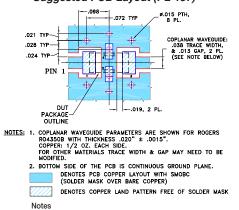
#### Outline Drawing



#### Outline Dimensions (inch ) c р

	G	F	E	D	C	В	A
	.169	.009	.032	.020	.037	.063	.126
	4.29	0.23	0.81	0.51	0.94	1.60	3.20
w	P	N	М	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 Suggested PCB Layout (PL-137)



#### **Features**

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

#### Applications

• sub-harmonic rejection

STOP BAND

(MHz)

Min.

 transmitters/receive · lab use





Generic photo used for illustration purposes only CASE STYLE: FV1206



vers	Electr	ical Specifications <sup>(1,2)</sup>	at 25°C		
	fco, MHz Nom.	PASSBAND (MHz)	VSWR (:1) Typ.		NO. OF SECTIONS
	(loss 3 dB)	(loss < 1.3 dB) (loss < 2 dB)	Frequency (MHz)	(W)	

(loss > 40 dB)	(loss > 20 dB)	Тур.	Max.	Тур.	Stopband	1.5:1			
1100	1480	1810	2250-3850	1950-4750	20:1	2250-3750	7	7	
(1) In Application v	where DC voltage i	is present at eit	her input or output p	oorts, coupling capa	acitors are req	uired. Alterna	tively, Mini-0	Circuits' "D" suffi	x

version of this model will provide>100 MOhm isolation to ground.

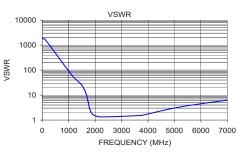
(2) Measured on Mini-Circuits Characterization Test Board TB-270.



#### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	94.72	1737.18
100.00	74.52	1737.18
1100.00	45.78	66.82
1480.00	32.05	26.33
1650.00	14.33	12.01
1750.00	6.57	4.61
1810.00	3.63	2.52
1950.00	1.52	1.57
2250.00	0.78	1.33
3750.00	0.69	1.53
3850.00	0.74	1.61
4750.00	1.66	2.67
5500.00	2.71	3.76
7000.00	4.89	6.30





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-Circuit's website at www.minicircuits.com/WCLStore/terms.jsp

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## Mini-Circuits

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