Ceramic **High Pass Filter**

500 to 2500 MHz 50Ω

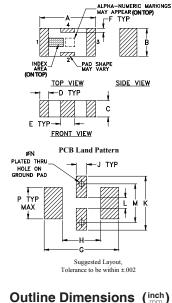
Maximum Ratings

Operating Temperature	-55ºC to 100ºC		
Storage Temperature	-55ºC to 100ºC		
RF Power Input*	7W max. at 25⁰C		
*Passband rating, derate linearly to 3W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.			

Pin Connections

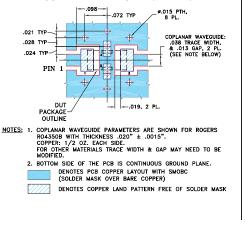
RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing



A	B	C	D	E	F	G	
.126	.063	.037	.020	.032	.009	.169	
3.20	1.60	0.94	0.51	0.81	0.23	4.29	
H .087 2.21	J .024 0.61	.122	.024	M .087 2.21	.012	P .071 1.80	wt grams .020

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



Features

- Low cost
- Small size
- 7 sections Temperature stable
- · Excellent power handling, 7W
- · Hermetically sealed
- LTCC construction
- Patent pending
- Applications

Military

20dB

3dB

- Sub-harmonic rejection
- Transmitters / receivers





CASE STYLE: FV1206 PRICE: \$2.49 ea. QTY (20)

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



Electrical Specifications⁽¹⁾ at 25°C PASSBAND VSWR STOPBAND fco, MHz POWER NO. OF (MHz) Nom. (MHz) INPUT SECTIONS Тур. Frequency (W) Min. (Loss 3 dB) (Loss < 1.3dB) (Loss < 2dB) (MHz) (Loss > 40dB) (Loss > 20dB) Тур. Max. Тур. Stopband 1.5:1 Max 7 230 350 440 600-1700 500-2500 20:1 500-1700 7

(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required

typical frequency response 40dB ATTE NUATION

F co FREQUENCY

F 1.3dB





Typical Performance Data at 25°C

Frequency (MHz)				
50	86.32	1737.18		
100	81.31	579.06		
230	46.84	75.53		
350	30.62	16.72		
385	15.56	7.73		
410	7.73	3.29		
440	3.08	1.29		
450	2.53	1.26		
500	1.52	1.48		
510	1.40	1.45		
600	0.83	1.18		
800	0.53	1.25		
1000	0.38	1.07		
1500	0.49	1.56		
1700	0.70	1.87		
2500	1.97	3.54		
4000	4.69	5.89		
HFCN-440+		HFCN-440+		
INSERTION LOSS		VSWR		
90	1000	6		
80		5		
70		4		
60	- 100	3		
50	¥ 100	2		
50 0.5	- Swr			
40 0.0				
30 500 750 1000 1250 1500 1750	10	500 750 1000 1250 1500 1750 2000 2250 25		
20				
70 2.5 60 1.5 50 0.5 40 0.5 30 500 20 500 10 100				
0				

0

FREQUENCY (MHz) For detailed performance specs & shopping online see web site

500 1000 1500 2000 2500 3000 3500 4000

ISO 9001 ISO 14001 AS 9100 CERT P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Components IF/RF MICROWAVE COMPONENTS

500 1000 1500 2000 2500 3000 3500 4000

FREQUENCY (MHz)

-Cir

0

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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.

M125148 EDR-8822/7F1 HFCN-440+ RAV/CP/AM 130221 Page 1 of 1

REV A