Ceramic **High Pass Filter**

50Ω 6000 to 11500 MHz

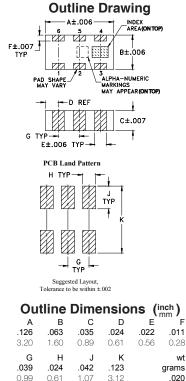
Maximum Ratings

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
*Decebered rating dereta linearly to 2	Wat 100°C ambient

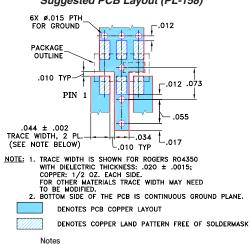
Passband rating, derate linearly to 3W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4,5,6



Demo Board MCL P/N: TB-285 Suggested PCB Layout (PL-158)



Features

- · Low cost
- Small size
- 5 sections
- Temperature stable Excellent power handling, 7W
- Hermetically sealed
- LTCC construction
- Protected by US Patent 7,760,485

Applications

- · Sub-harmonic rejection
- Transmitters / receivers



CASE STYLE: FV1206-1



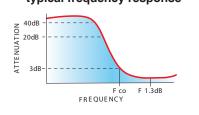


Electrical Specifications^{1,2} at 25°C

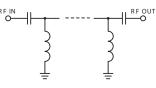
STOPE (MH		fco, MHz Nom.	PASSI (Mł			SWR Typ.	_	NO. OF SECTIONS
(Loss > 30dB) (Typ.	Loss > 20dB) Min.	(Loss 3 dB) Typ.	(Loss < 1.5dB) Max.	(Loss < 2dB) Max.	Stopband	Frequency (MHz) 1.5:1	(W) Max.	
4000	4500	5500	6600-10000	6000-11500	20:1	5600-11000	7	5

1. DC Resistance to ground is 100 Mohms min. 2. Measured on Mini-Circuits Characterization Test Board TB-285.

typical frequency response







Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)		
50	63.32	1737.18		
500	41.73	868.59		
1000	36.12	434.30		
3250	44.07	62.05		
4000	32.16	45.72		
4500	27.90	34.75		
5000	26.03	22.29		
5500	3.24	2.44		
5600	2.05	1.53		
6000	1.39	1.53		
6600	1.05	1.22		
9000	1.09	1.60		
10000	0.79	1.24		
11500	1.18	1.64		
12000	1.71	2.05		
HFCN-5500D+		HFCN-5500D+		
INSERTION LOSS		VSWR		

10

1

0

2000

4000

INSERTION LOSS(dB) 60 1000 50 VSWR 40 100 30 20 10 0 0 2000 4000 6000 8000 10000 12000 FREQUENCY (MHz)



6000

FREQUENCY (MHz)

A Performance and quality attributes and conditions not express/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/MCLStore/terms.jsp REV. B M151107

8000



www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

EDR-6982/3 HFCN-5500D+ RAV/CP/AM 150729 Page 1 of 1

10000 12000