Ceramic **High Pass Filter**

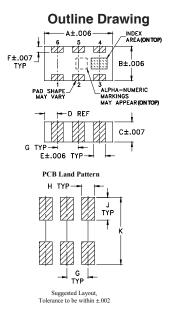
50Ω 5000 to 10100 MHz

Maximum Ratings

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

Pin Connections

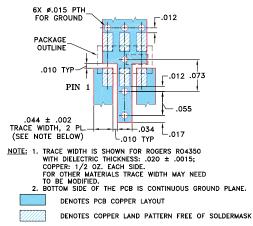
RF IN	1
RF OUT	3
GROUND	2,4,5,6



Outline Dimensions (inch) В С А D Е F

. 126	. 063	. 035	. 024	. 022	.011
3.20	1.60	0.89	0.61	0.56	0.28
G	H	J	K		wt
.039	.024	.042	. 123		grams
0.99	0.61	1.07	3.12		.020

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 and DC blocking
- Transmitters / receivers

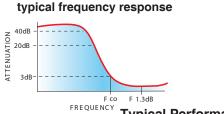


CASE STYLE: FV1206-1 PRICE: \$2.99 ea. QTY (20) +RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

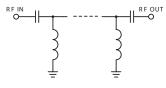


		Electric	al Specifi	cations ^(1,2)	at 25°C	;		
STOPI (Mł		fco, MHz Nom.	PASSBAND (MHz)		VSWR Typ.		POWER INPUT	NO. OF SECTIONS
(Loss > 30dB)	(Loss > 20dB)	(Loss 3 dB)	(Loss < 1.5dB)	(Loss < 2dB)		Frequency (MHz)	(W)	
Тур.	Min.	Тур.	Max.	Max.	Stopband	1.5:1	Max.	
3600	3500	4400	5000-9900	5000-10100	20:1	4600-10100	7	5

(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required. Alternatively, if DC pass IN-OUT is required, Mini-Circuits' "D" suffix version of this model will support DC IN-OUT, and provide>100 MOhm isolation to ground. (2) Measured on Mini-Circuits Characterization Test Board TB-285.

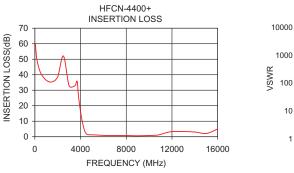


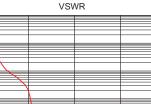
electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
50	60.22	1737.18	
500	41.29	868.59	
2500	52.10	78.97	
3500	32.81	37.77	
3600	36.38	34.75	
3850	24.31	24.83	
4050	14.01	15.00	
4200	8.13	7.94	
4400	3.09	2.73	
4600	1.48	1.44	
5000	1.24	1.65	
9900	0.65	1.22	
10100	0.71	1.33	
10500	0.93	1.60	
11500	2.12	2.37	
13000	3.33	3.66	
16000	5.02	2.47	





8000

HFCN-4400+

FREQUENCY (MHz)

12000

Notes

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 Nlin-Circuit's applicable established test performance criteria and measurement instructions. C. The parts covered by this specification document are subject to Nlini-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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REV. D M126512 EDR-8120/3 HFCN-4400+ RVN/CP/AM 130910 page 1

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