Ceramic **High Pass Filter**

50Ω 9000 to 13000 MHz

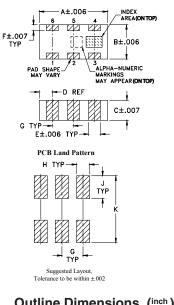
Maximum Ratings

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 3W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.				

Pin Connections

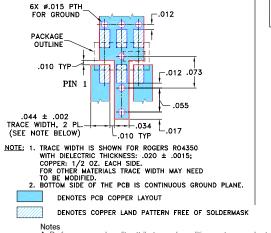
RF IN	1
RF OUT	3
GROUND	2,4,5,6

Outline Drawing



F	E	D	С	В	Α
.011	.022	.024	.035	.063	.126
0.28	0.56	0.61	0.89	1.60	3.20
wt		к	J	н	G
grams		.123	.042	.024	.039
.020		3.12	1.07	0.61	0.99

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





Generic photo used for illustration purposes only

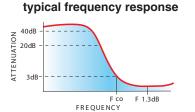
CASE STYLE: FV1206-1

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

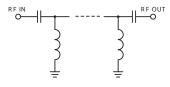


Electrical Specifications ^(1,2) at 25°C										
	PBAND IHz)	fco, MHz Nom.	PASSBAND (MHz)				VSWR Typ.		POWER INPUT	NO. OF SECTIONS
(Loss > 30dB)) (Loss > 20dB)	(Loss 3 dB)	(Loss < 2.5dB)	(Loss < 3dB)		Frequency (MHz)	(W)			
Тур.	Min.	Тур.	Max.	Max.	Stopband	1.5:1	Max.			
5700	6000	8400	9500-13000	9000-13000	20:1	9000-13000	7	5		

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

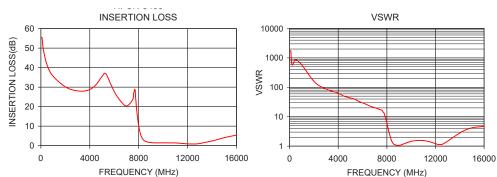


electrical schematic



Typical Performance Data at 25°C

Frequency	Insertion Loss	VSWR (:1)	
(MHz)	(dB)		
50	55.48	1737.18	
500	41.57	868.59	
4500	31.17	49.64	
5700	36.69	31.60	
6000	27.78	29.46	
7500	23.46	17.05	
8020	9.65	5.68	
8400	2.88	1.50	
8600	2.11	1.15	
9000	1.57	1.06	
9500	1.43	1.24	
10000	1.47	1.46	
12000	0.92	1.22	
13000	1.10	1.48	
16000	5.43	4.72	



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

REV. G M158161 EDR-6982/5 HFCN-8400+ RAV/CP/AM 160922 Page 1 of 1

