Ceramic **ligh Pass Filter**

3400 to 9900 MHz **50**0

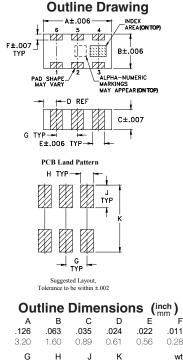
Maximum Ratings

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			
*Peachand rating, derate linearly to 2W at 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

.123

3.12

.042

1.07

.039

0.99

Notes

А. В.

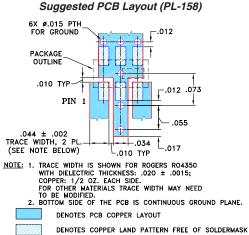
.024

0.61

F

grams

.020



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

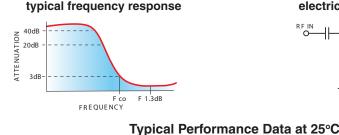
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

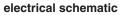


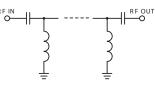
	Electrical Specifications ^{1,2} at 25°C									
STOPBAND (MHz)		fco, MHz Nom.	PASSBAND (MHz)		VSWR Typ.		POWER INPUT	NO. OF SECTIONS		
	(Loss > 30dB) ((Loss > 20dB)	(Loss 3 dB)	(Loss < 1.5dB)	(Loss < 2dB)		Frequency (MHz)	(W)		
	Тур.	Min.	Тур.	Max.	Max.	Stopband	1.5:1	Max.		
	2500	2450	3100	3500-9500	3400-9900	20:1	3100-10500	7	5	

1. DC Resistance to ground is 100 Mohms min.

2. Measured on Mini-Circuits Characterization Test Board TB-285.







Insertion Loss VSWR Frequency (MHz) (dB) (:1) 54 41 1737 18 50 800 32.66 115.81 1810 54.18 59.91 2450 40.03 26 74

HFCN-3100D+		HFCN-3100D+	
11000	1.76	1.68	
10500	1.21	1.52	
9900	0.88	1.39	
9500	0.78	1.29	
9000	0.88	1.21	
7000	0.68	1.31	
5000	0.66	1.09	
3500	0.94	1.32	
3400	1.01	1.27	
3100	2.22	1.87	
2920	6.20	4.89	
2700	16.65	15.00	
2500	33.38	25.19	
2400	40.05	20.74	

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



1000 VSWR 100 10 12000 0 2000 4000 6000 8000 10000 FREQUENCY (MHz)

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 Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. The parts covered by this specification document are subject to Mini-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

REV. B M151107 EDR-7909/1 HFCN-3100D+ RAV/CP/AM 150729 Page 1 of 1

Mini-Circuits

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