Ceramic **ligh Pass Filter**

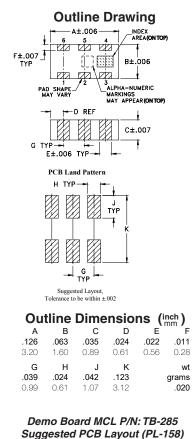
3400 to 9900 MHz **50**0

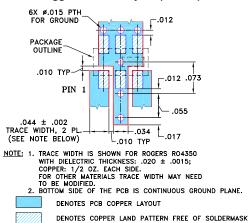
Maximum Ratings

Operating Temperature	-55°C to 100°C		
Storage Temperature	-55°C to 100°C		
RF Power Input*	7W max. at 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	11
RF OUT	3
GROUND	2,4,5,6





Notes

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

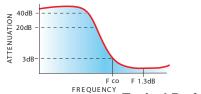


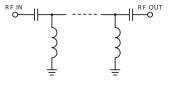
	Electrical Specifications ^(1,2) at 25°C								
STOPBAND (MHz)		fco, MHz Nom.	PASSBAND (MHz)		VSWR Typ.		POWER INPUT	NO. OF SECTIONS	
(Lo	ss > 30dB)) (Loss > 20dB)	(Loss 3 dB)	(Loss < 1.5dB)	(Loss < 2dB)		Frequency (MHz)	(W)	
	Тур.	Min.	Тур.	Max.	Max.	Stopband	1.5:1	Max.	
	2500	2450	3100	3500-9500	3400-9900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

(1) 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.

typical frequency response

electrical schematic





Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)		
50	54.41	1737.18		
800	32.66	115.81		
1810	54.18	59.91		
2450	40.03	26.74		
2500	33.38	25.19		
2700	16.65	15.00		
2920	6.20	4.89		
3100	2.22	1.87		
3400	1.01	1.27		
3500	0.94	1.32		
5000	0.66 1.09			
7000	0.68 1.31			
9000	0.88	1.21		
9500	0.78	1.29		
9900	0.88	1.39		
10500	1.21	1.52		
11000	1.76	1.68		
HFCN-3100+		HFCN-3100+		
INSERTION LOSS		VSWR		
60	10000			
⊕ 50 ↓				
	1000 -			
õ 40 ↓ / ↓ 				
z ∨ M	۲ ۲ ۲ ۱00 - ۲			
(GP) 50 40 30 20	§ 100			
20				

10

1

0

2000

4000

6000

FREQUENCY (MHz)

8000

2000

INSI 10

0

0

4000

6000

FREQUENCY (MHz)

8000

10000 12000

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/MCLStore/terms.jsp

REV. E M151107 EDR-7909/1 HFCN-3100+ RAV/CP/AM 150724 Page 1 of 1

10000

12000

Mini-Circuits

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