# Ceramic High Pass Filter

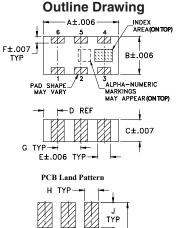
### 50Ω 5000 to 11000 MHz

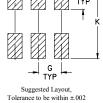
#### **Maximum Ratings**

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

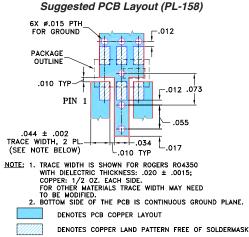




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Г		D	C	D	A
.011	.022	.024	.035	.063	.126
0.28	0.56	0.61	0.89	1.60	3.20
wt		к	J	н	G
grams		.123	.042	.024	.039
.020		3.12	1.07	0.61	0.99

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



Notes

#### Features

- Low cost
- Small size
- 5 sections
- Temperature stableExcellent power handling, 7W
- Excellent power handling, /v
  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

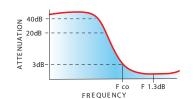


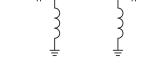
	Electrical Specifications <sup>(1,2)</sup> at 25°C							
STOPBAND (MHz)		fco, MHz Nom.	PASSBAND (MHz)		VSWR Typ.		POWER INPUT	NO. OF SECTIONS
	(Loss > 30dB) (Loss > 20d	B) (Loss 3 dB)	(Loss < 1.5dB)	, (Loss < 2dB)		Frequency (MHz)	(W)	
	Typ. Min.	Тур.	Max.	Max.	Stopband	1.5:1	Max.	
	3700 3800	4600	5200-10500	5000-11000	20:1	4720-11000	7	5

In Application where DC voltage is present at either input or output ports, coupling capacitors are required.
 Measured on Mini-Circuits Characterization Test Board TB-285.

#### typical frequency response

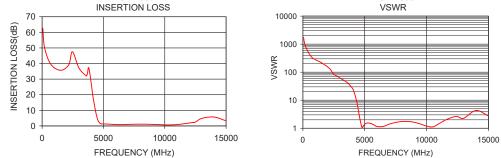
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#### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	62.56	1737.18
1500	35.68	217.15
2470	47.59	86.86
3700	33.77	38.61
3800	37.24	34.07
4150	18.50	19.32
4380	8.52	7.90
4500	4.77	3.97
4600	2.78	2.25
4720	1.66	1.31
5000	1.27	1.39
5200	1.25	1.54
8000	1.11	1.73
10500	0.66	1.12
11000	0.85	1.45
14000	5.72	4.32
15000	3.27	2.75
HFCN-4600+ INSERTION LOSS		HFCN-4600+ VSWR



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-Circuit's standard limited warranty and terms and conditions (collectived). "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. F M151107 EDR-8120/1 HFCN-4600-RAV/CP/AM 150729



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