Ceramic **High Pass Filter**

50Ω

1950 to 4750 MHz

Maximum Ratings

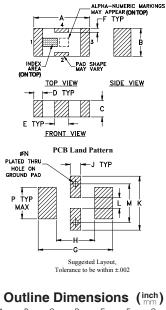
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	7W max. at 25°C
Max. DC Voltage at pins 1&3	25 VDC
* Passband rating, derate linearly to 3W	at 100°C ambient

Permanent damage may occur if any of these limits are exceeded.

Pin Connections

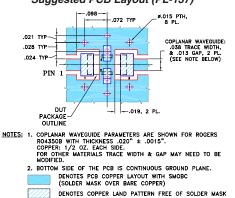
RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing



		G	F	E	D	С	в	A
		.169	.009	.032	.020	.037	.063	.126
		4.29	0.23	0.81	0.51	0.94	1.60	3.20
wt		P	N	M	L	K	J	н
۱S	gram	.071	.012	.087	.024	.122	.024	.087
20	.02	1.80	0.30	2.21	0.61	3.10	0.61	2.21

Demo Board MCL P/N: TB-270 Suggested PCB Layout (PL-137)



Features

- low cost
- small size 7 sections
- temperature stable
- hermetically sealed
- LTCC construction
- excellent power handling, 7W

Applications

- sub-harmonic rejection
- transmitters/receivers
- lab use





CASE STYLE: FV1206

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

> Available Tape and Reel at no extra cost Devices/Reel Reel Size 20, 50, 100, 200, 500,1000, 3000

Electrical Specifications^{1,2} at 25°C

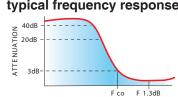
(Mł	STOP BAND (MHz) Min.		PASSBAND (MHz)		Тур.`́		POWER INPUT (W)	NO. OF SECTIONS
		(loss 3 dB)	(loss < 1.3 dB)	(loss < 2 dB)		Frequency (MHz)		
(loss > 40 dB)	(loss > 20 dB)	Тур.	Max.	Тур.	Stopband	1.5:1		
1100	1480	1810	2250-3850	1950-4750	20:1	2250-3750	7	7

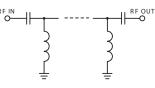
1. DC Resistance to ground is 100 Mohms min.

2. Measured on Mini-Circuits Characterization Test Board TB-270.

typical frequency response

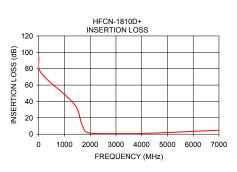
electrical schematic

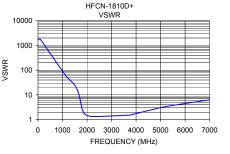




FREQUENCY Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)		
1.00	94.72	1737.18		
100.00	74.52	1737.18		
1100.00	45.78	66.82		
1480.00	32.05	26.33		
1650.00	14.33	12.01		
1750.00	6.57	4.61		
1810.00	3.63	2.52		
1950.00	1.52	1.57		
2250.00	0.78	1.33		
3750.00	0.69	1.53		
3850.00	0.74	1.61		
4750.00	1.66	2.67		
5500.00	2.71	3.76		
7000.00	4.89	6.30		





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 Circuitto and leather than the specification document.

Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable stabilished test performance orteria and measurement instructions. 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. B M151107 HFCN-1810D+ EDB-6437/4 RVN/AD/CP 150724 Page 1 of 1

Mini-Circuits