

High Pass Filter

50Ω 7900 to 11000 MHz

HFCN-7150+



CASE STYLE: FV1206-1
PRICE: \$2.99 ea. QTY (20)

+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

Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500, 1000, 3000

Maximum Ratings

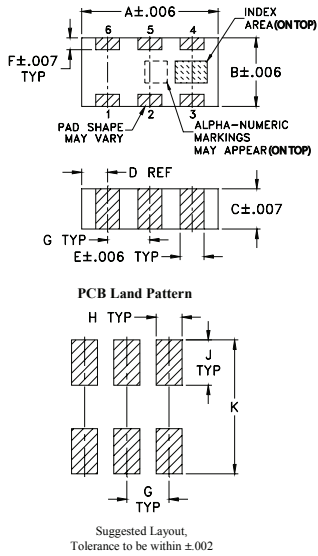
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	6W max. at 25°C

*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

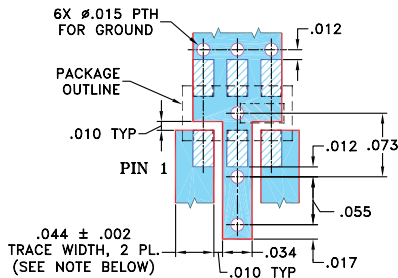
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.126	.063	.035	.024	.022	.011
3.20	1.60	0.89	0.61	0.56	0.28
G	H	J	K	wt	
.039	.024	.042	.123	grams	
0.99	0.61	1.07	3.12	.020	

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



- 6X ∅.015 PTH FOR GROUND
 - PACKAGE OUTLINE
 - PIN 1
 - 0.044 ± .002 TRACE WIDTH, 2 PL. (SEE NOTE BELOW)
 - 0.010 TYP
 - 0.012
 - 0.012
 - 0.073
 - 0.055
 - 0.034
 - 0.017
 - 0.010 TYP
- DENOTES PCB COPPER LAYOUT
■ DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Features

- Low cost
- Small size
- 5 sections
- Temperature stable
- Excellent power handling, 6W
- Hermetically sealed
- LTCC construction
- Protected by US Patent 7,760,485

Applications

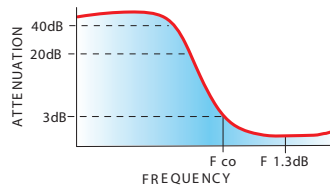
- Sub-harmonic rejection
- Transmitters / receivers

Electrical Specifications^(1,2) at 25°C

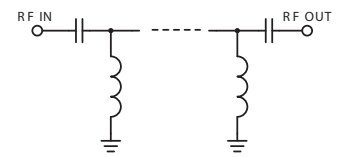
STOPBAND (MHz)	f _{co} , MHz Nom.	PASSBAND (MHz)	VSWR Typ.	POWER INPUT (W)	NO. OF SECTIONS
(Loss > 30dB) Typ.	(Loss > 20dB) Min.	(Loss < 1.5dB) Typ.	Frequency 1.5:1	Max.	
5100	6150	7150	20:1	6	5
		8500-10500	7250-11000		

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

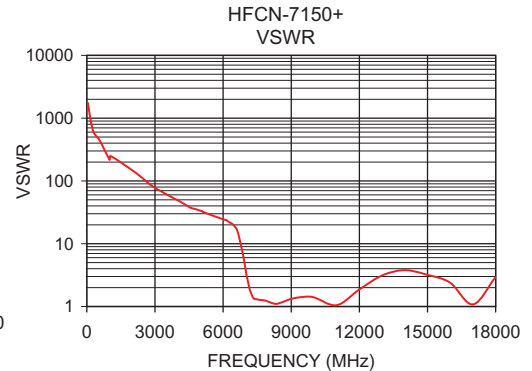
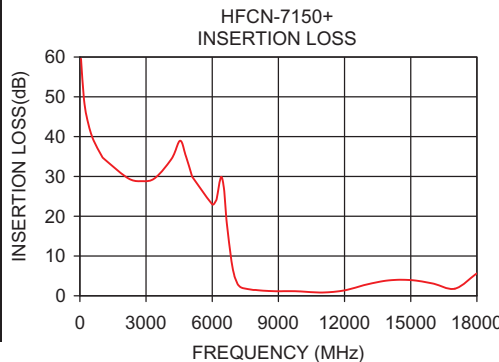
typical frequency response



electrical schematic



Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	59.58	1737.18
1000	35.04	217.15
2800	28.81	86.86
4540	38.96	37.77
5100	29.87	32.18
6150	23.72	23.81
6650	18.85	15.26
7020	4.74	3.34
7150	2.97	2.01
7250	2.31	1.56
7900	1.46	1.23
8500	1.24	1.14
10500	0.92	1.29
11000	0.82	1.05
12000	1.37	1.87
15000	3.95	3.19
18000	5.64	2.95



Notes

- 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-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp