High Pass Filter

2000 to 5200 MHz 50Ω

Maximum Ratings

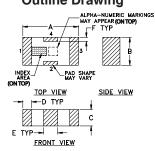
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
DE Dower Input*	7M may at 25°C

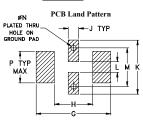
^{*} Passband rating, derate linearly to 3W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing



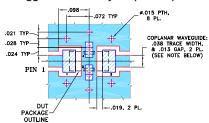


Suggested Layout Tolerance to be within ±.002

Outline Dimensions (inch)

Α	В	С	D	Е	F	G	
.126	.063	.037	.020	.032	.009	.169	
3.20	1.60	0.94	0.51	0.81	0.23	4.29	
Н	J	K	L	M	N	Р	wt
H .087	J .024	K .122	_		N .012		

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



COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS ROA350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED. NOTES: 1.

2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE. DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- low cost
- 7 sections
- temperature stable
- hermetically sealed
- excellent power handling, 7W

Applications

ATTENUATION

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

- small size

- LTCC construction

Electrical Specifications(1,2) at 25°C

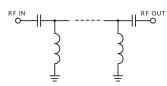
100 000								
STOP BAND (MHz)		fco, MHz Nom.	PASSBAND (MHz)		VSWR (:1) Typ.			NO. OF SECTIONS
M	in.	(loss 3 dB)	(loss < 1.3 dB)	(loss < 2 dB)		Frequency (MHz)	(W)	
(loss > 40 dB)	(loss > 20 dB)	Тур.	Max.	Typ.	Stopband	1.5:1		
1075	1400	1910	2200-4400	2000-5200	20:1	2100-4500	7	7

⁽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-270.

typical frequency response

electrical schematic



HFCN-1910-4+

Generic photo used for illustration purposes only

CASE STYLE: FV1206

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site

Available Tape and Reel at no extra cost

20, 50, 100, 200, 500,1000, 3000

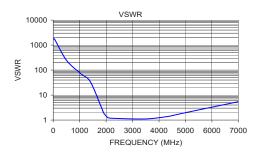
for RoHS Compliance methodologies and qualifications

Devices/Reel

F co FREQUENCY Typical Performance Data at 25°C

Frequency	Insertion Loss	VSWR		
(MHz)	(dB)	(:1)		
1.00	90.73	1737.18		
50.00	75.59	1737.18		
500.00	63.78	248.17		
1040.00	50.40	72.39		
1400.00	25.38	34.75		
1840.00	2.89	2.89		
1910.00	1.73	1.90		
2050.00	0.97	1.29		
2100.00	0.87	1.23		
2200.00	0.75	1.18		
3500.00	0.48	1.11		
4400.00	0.67	1.42		
4500.00	0.76	1.51		
5200.00	1.37	2.19		
7000.00	4.34	5.44		
7000.00	4.34	3.44		





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 Claudia positional and the state of the state

Electrical specifications and performance data contained in this specification document are harded to be excluded and of the form a part of this specification. 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-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