High Pass Filter

HFCN-1320D+

50Ω

1400 to 5000 MHz

Maximum Ratings

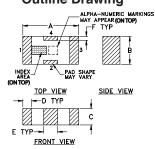
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	7W max. at 25°C
Max DC Voltage at pins 1&3	25 VDC

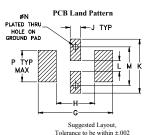
^{*} Passband rating, derate linearly to 3W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded

Pin Connections

RF IN	1_
RF OUT	3
GROUND	2,4

Outline Drawing

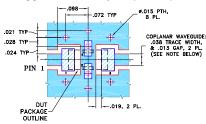




Outline Dimensions (inch)

Α	В	С	D	E	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	.122	.024	M .087	N .012	P .071	wt grams

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



COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.

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
- 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

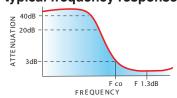


Electrical Specifications^{1,2} at 25°C

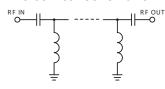
STOP (MI	Hz)	fco, MHz Nom.	PASSBAND (MHz)		VSWR (:1) Typ.		POWER INPUT (W)	NO. OF SECTIONS
l l		(loss 3 dB)	(loss < 1.3 dB)	(loss < 2 dB)		Frequency (MHz)	(**)	
(loss > 40 dB)	(loss > 20 dB)	Тур.	Max.	Typ.	Stopband	1.5:1		
880	1060	1320	1700-3800	1400-5000	20:1	1700-3700	7	7

- 1. DC Resistance to ground is 100 Mohms min.
- 2. Measured on Mini-Circuits Characterization Test Board TB-270.

typical frequency response

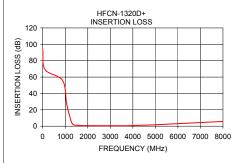


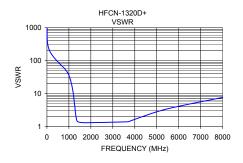
electrical schematic



Typical Performance Data at 25°C

	(:1)
0.140	4707.10
	1737.18
	217.15
	49.64
27.72	27.59
13.92	12.18
6.40	4.64
2.97	2.12
1.55	1.42
0.75	1.31
0.55	1.41
0.59	1.49
1.76	2.81
3.08	4.13
5.76	7.66
	6.40 2.97 1.55 0.75 0.55 0.59 1.76 3.08





- 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