

Ceramic High Pass Filter

1700 to 5000 MHz

NEW!
HFCN-1320



BLUE CELL™

CASE STYLE: FV1206

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	7W max. at 25°C

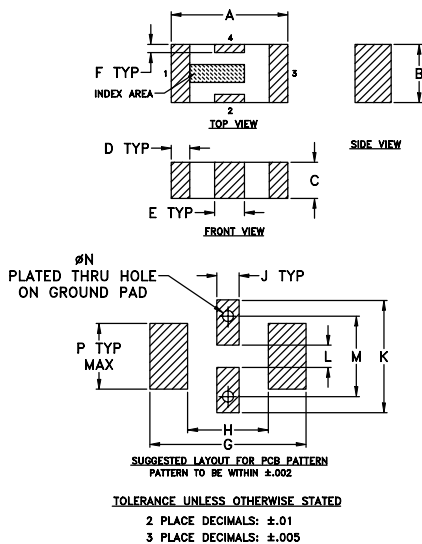
*Passband rating, derate linearly to 3W at 100°C ambient.

Pin Connections

RF IN	1**
RF OUT	3**
GROUND	2,4

** RF IN & RF OUT can be interchanged

Outline Drawing

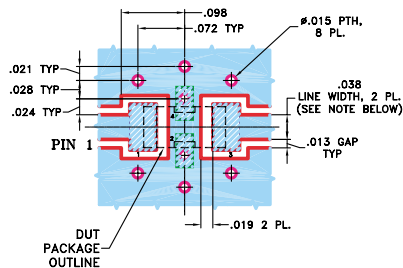


Outline Dimensions (inch)

A	B	C	D	E	F	G
.126	.063	.037	.024	.032	.009	.169
3.20	1.60	0.94	0.51	0.81	0.23	4.29

H	J	K	L	M	N	P	wt
.087	.024	.122	.024	.087	.012	.071	grams
2.21	0.61	3.10	0.61	2.21	0.30	1.80	.020

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



NOTE:
1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350 WITH DIELECTRIC THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

- DENOTES PCB COPPER LAYOUT
- DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Features

- low cost
- small size
- 7 sections
- temperature stable
- excellent power handling, 7W

Applications

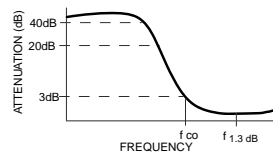
- sub-harmonic rejection
- transmitters/receivers
- lab use

High Pass Filter Electrical Specifications¹ (T_{AMB}=25°C)

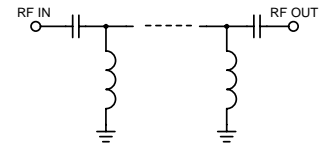
MODEL NO.	STOP BAND (MHz)		f _{co} , MHz Nom. (loss > 3 dB) Typ.	PASSBAND (MHz)		VSWR Typ. Frequency (MHz) 1.5:1	POWER INPUT (W)	NO. OF SECTIONS
	(loss > 40 dB)	(loss > 20 dB)		(loss < 1.3 dB) Max.	(loss < 2 dB) Typ.			
HFCN-1320	910	1060	1320	1700-3800	1400-5000	20:1	1700-3700	7

1. For Applications requiring DC voltage to be applied to the Input or output, use HFCN-1320D (DC Resistance to ground is 100 Mohms min.)

typical frequency response



schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	94.16	>20
500.00	58.01	>20
920.00	58.86	>20
1070.00	28.39	>20
1250.00	8.11	5.42
1328.00	3.15	2.08
1500.00	1.47	1.86
1700.00	0.88	1.57
2000.00	0.62	1.41
3000.00	0.44	1.06
4000.00	0.77	1.67
5000.00	1.70	2.61
6000.00	2.95	4.00
7000.00	4.34	6.07
8000.00	5.26	7.83

