

# Ceramic High Pass Filter

2200 to 5200 MHz

**NEW!**  
**HFCN-1910**



**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

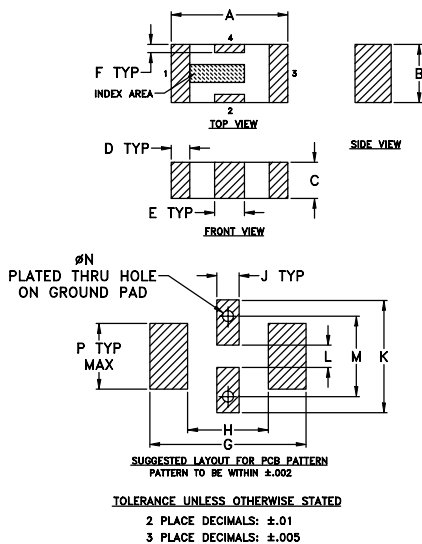
\*Passband rating, derate linearly to 3W at 100°C ambient.

## Pin Connections

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

\*\* RF IN & RF OUT can be interchanged

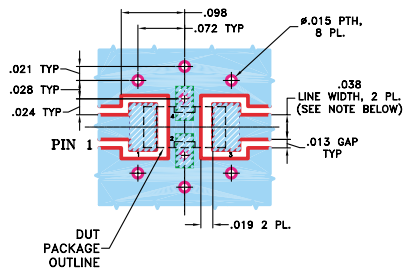
## Outline Drawing



## Outline Dimensions (inch)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	wt
.126	.063	.037	.024	.087	.024	.009	.087	.024	.122	.024	.087	.012	.071	grams
3.20	1.60	0.94	0.51	0.81	0.23	4.29	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)**



## Features

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

## Applications

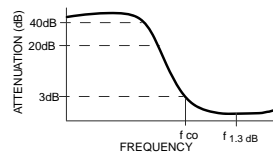
- sub-harmonic rejection
- transmitters/receivers
- lab use

## High Pass Filter Electrical Specifications<sup>1</sup> (T<sub>AMB</sub>=25°C)

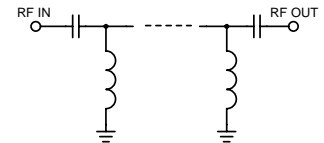
MODEL NO.	STOP BAND (MHz) Min. (loss>40 dB)	STOP BAND (MHz) Max. (loss>20 dB)	f <sub>co</sub> , MHz Nom. (loss 3 dB) Typ.	PASSBAND (MHz) Max. (loss<1.3 dB)	PASSBAND (MHz) Typ. (loss<2 dB)	VSWR Typ. Frequency (MHz) 1.5:1	POWER INPUT (W)	NO. OF SECTIONS
HFCN-1910	1100	1400	1910	2200-4400	2000-5200	20:1	2100-4500	7

1. For Applications requiring DC voltage to be applied to the Input or output, use HFCN-1910D (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	90.73	>20
50.00	82.51	>20
500.00	63.30	>20
1000.00	56.39	>20
1140.00	44.58	>20
1430.00	26.44	>20
1720.00	10.44	12.61
1910.00	3.09	3.05
2060.00	1.37	1.53
2300.00	0.83	1.19
3000.00	0.60	1.26
4500.00	0.79	1.57
5500.00	1.97	2.82
6500.00	3.83	4.47
7000.00	4.55	5.44

