

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

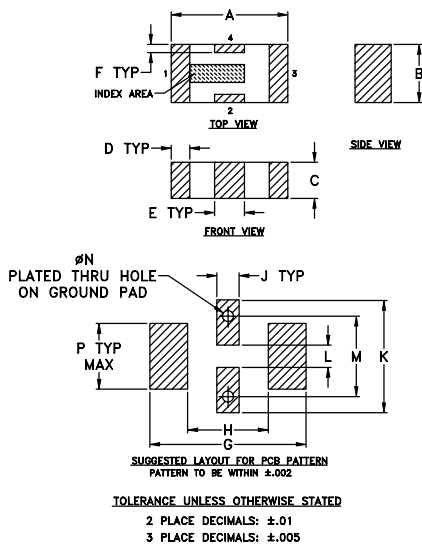
*Passband rating, derate linearly to 3W at 100°C ambient.

Pin Connections

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

** RF IN & RF OUT can be interchanged

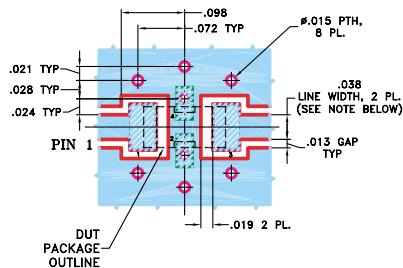
Outline Drawing



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

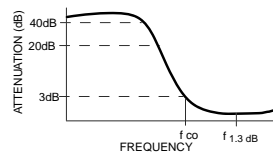
- sub-harmonic rejection
- transmitters/receivers
- lab use

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

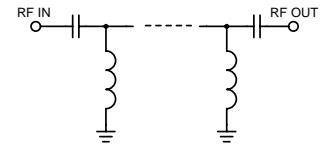
MODEL NO.	STOP BAND (MHz) Min. (loss>40 dB)	STOP BAND (MHz) Max. (loss>20 dB)	f _{co} , MHz Nom. (loss 3 dB) Typ.	PASSBAND (MHz) Max. (loss<1.3 dB)	PASSBAND (MHz) Typ. (loss<2 dB)	VSWR Typ. Frequency (MHz) 1.5:1	POWER INPUT (W)	NO. OF SECTIONS
HFCN-1910	1100	1400	1910	2200-4400	2000-5200	20:1	2100-4500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

