

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

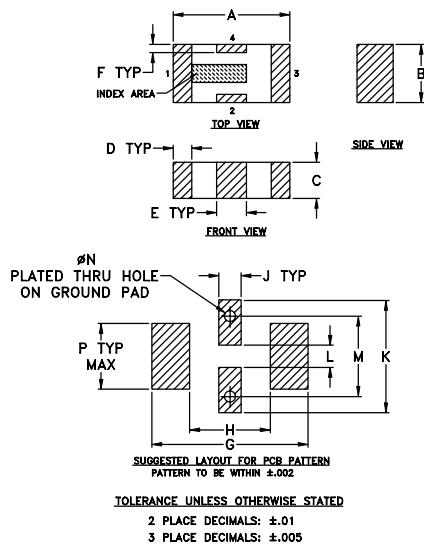
*Passband rating, derate linearly to 3W at 100°C ambient.

Pin Connections

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

** RF IN & RF OUT can be interchanged

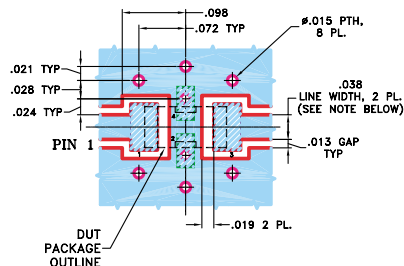
Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	W
.126	.063	.037	.024	.032	.009	.169	.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)



NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS R04350 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

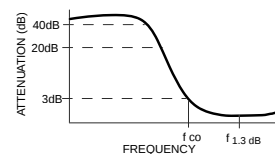
- sub-harmonic rejection
- transmitters/receivers
- lab use

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

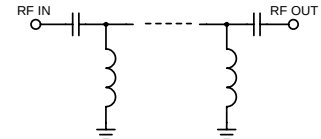
MODEL NO.	STOP BAND (MHz) Min.	f _{co} , MHz Nom. (loss > 3 dB) Typ.	PASSBAND (MHz) (loss < 1.3 dB) Max. (loss < 2 dB) Typ.	VSWR Typ. Stopband Frequency (MHz) 1.5:1	POWER INPUT (W)	NO. OF SECTIONS
HFCN-1320	910 1060	1320	1700-3800 1400-5000	20:1 1700-3700	7	7

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

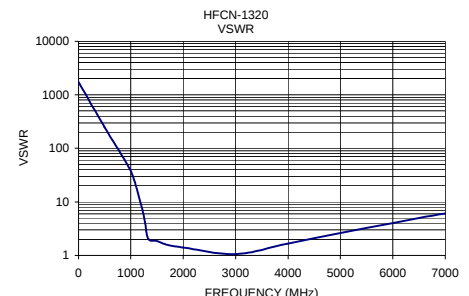
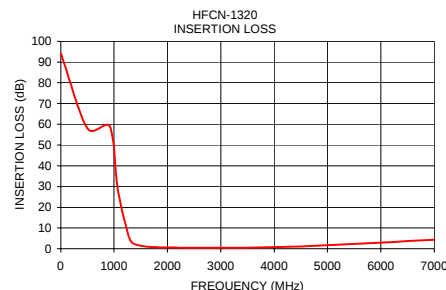


schematic



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



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