

Ceramic High Pass Filter

2100 to 5500 MHz

NEW!
HFCN-1760



BLUE CELL™

CASE STYLE: FV1206

PRICE: \$1.99 ea. QTY (10-49)

\$.99 ea. QTY (1000)

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

RF Power Input 7W* max.

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

Pin Connections

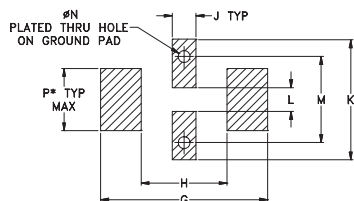
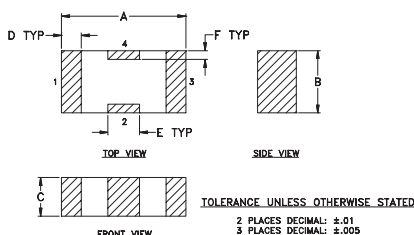
RF IN 1**

RF OUT 3**

GROUND 2,4

** RF IN & RF OUT can be interchanged

Outline Drawing

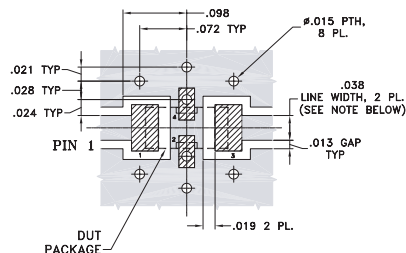


* LINE WIDTH SHOULD BE DESIGNED TO MATCH 50 OHMS CHARACTERISTIC IMPEDANCE, DEPENDING ON PCB MATERIAL & THICKNESS.

Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
.126	.063	.039	.020	.032	.009	.169	.087
3.20	1.60	0.99	0.51	0.81	0.23	4.29	2.21
J	K	L	M	N	P	wt.	
.024	.122	.024	.087	.012	.071	grams	
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
- dc block in/out, breakdown voltage, 1kV typ.
- excellent power handling, 7W

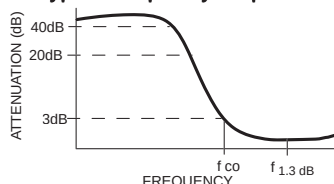
Applications

- sub-harmonic rejection and dc blocking
- transmitters/receivers
- lab use

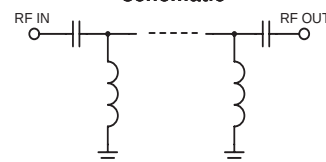
Electrical Specifications (T_{AMB}=25°C)

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. Frequency (MHz) 1.5:1 Stopband	POWER INPUT (W)	NO. OF SECTIONS
HFCN-1760	950 1230	1760	2100-5200 1900-5500	20:1 2200-4500	7	7

typical frequency response

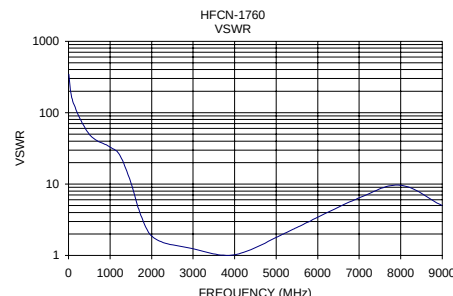
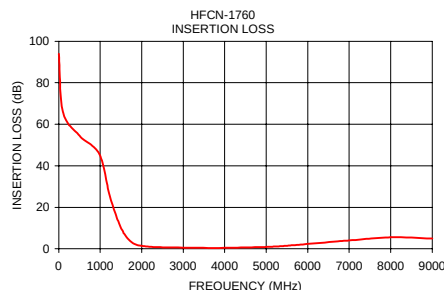


schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	94.01	347.44
100.00	65.92	144.77
500.00	54.47	49.64
980.00	45.56	33.42
1230.00	25.54	25.56
1500.00	10.05	10.43
1760.00	3.16	3.42
2100.00	1.10	1.69
3000.00	0.54	1.24
4000.00	0.44	1.02
5200.00	1.04	2.04
5480.00	1.40	2.43
7000.00	3.99	6.42
8000.00	5.48	9.63
9000.00	4.94	4.99



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