

Ceramic High Pass Filter

1950 to 5000 MHz

Maximum Ratings

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

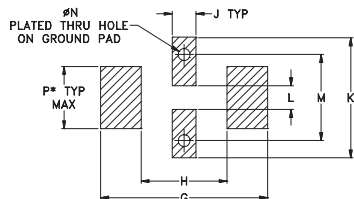
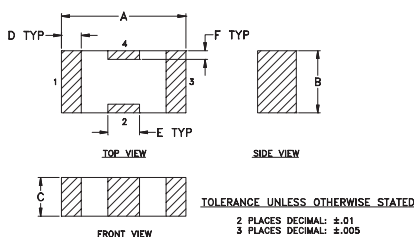
*Passband rating, derate linearly to 3W at 100°C ambient.

Pin Connections

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

** RF IN & RF OUT can be interchanged

Outline Drawing

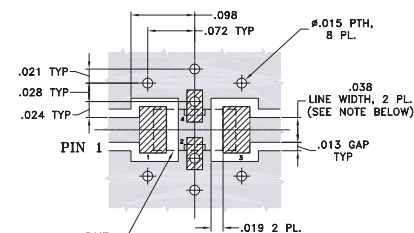


* LINE WIDTH SHOULD BE DESIGNED TO MATCH 50 OHMS CHARACTERISTIC IMPEDANCE, DEPENDING ON PCB MATERIAL & THICKNESS.

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
- excellent power handling, 7W

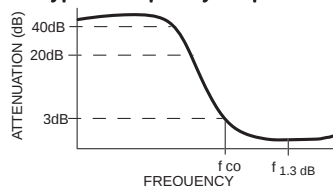
Applications

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

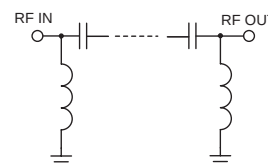
High Pass Filter Electrical Specifications (T_{AMB}=25°C)

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-1600	1090 1290	1600	1950-4000 1650-5000	20:1 1700-4000	7	7

typical frequency response

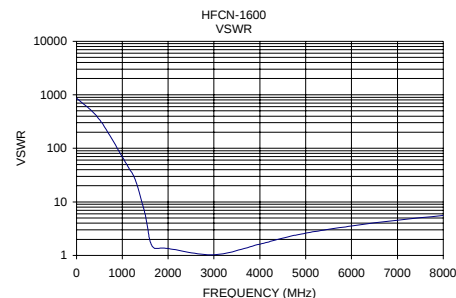
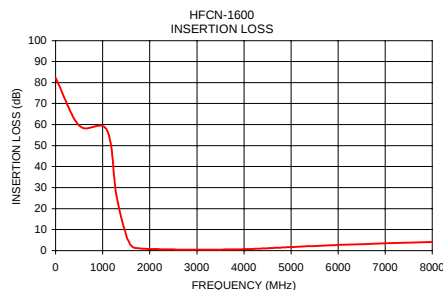


schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	82.28	>20
500.00	59.56	>20
1090.00	57.39	>20
1290.00	26.41	>20
1500.00	7.28	5.70
1600.00	2.52	1.95
1700.00	1.28	1.36
1960.00	0.80	1.36
3000.00	0.44	1.03
4000.00	0.70	1.63
4500.00	1.14	2.10
5000.00	1.70	2.61
6000.00	2.66	3.54
7000.00	3.49	4.55
8000.00	4.12	5.59



NEW!
HFCN-1600



BLUE CELL™

CASE STYLE: FV1206

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

\$.99 ea. QTY (1000)