

Ceramic High Pass Filter

760 to 1960 MHz

NEW!
HFCN-6R3



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.

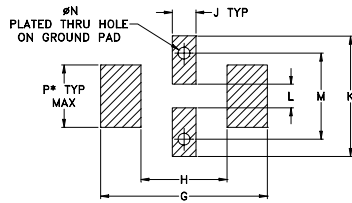
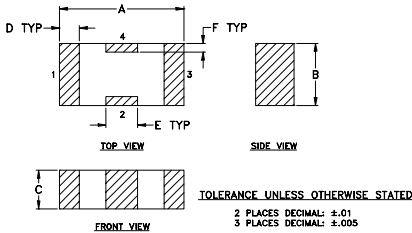
*derate linearly to 3W at 100°C ambient.

Pin Connections

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

** pins 1&3 can be interchanged

Outline Drawing

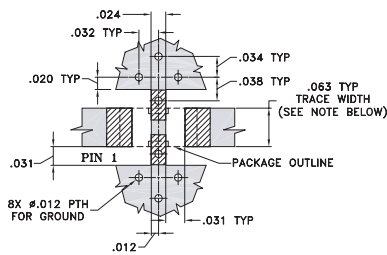


* LINE WIDTH SHOULD BE DESIGNED TO MATCH 50 OHMS CHARACTERISTIC IMPEDANCE, DEPENDING ON PCB MATERIAL & THICKNESS.

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-237 Suggested PCB Layout (PL-123)



NOTE: TRACE WIDTH IS SHOWN FOR ROGERS R04350 WITH DIELECTRIC THICKNESS .030" ± .002". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.

■ DENOTES PCB COPPER LAYOUT
■ DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- low cost
- small size
- 7 sections
- temperature stable
- dc block in/out, breakdown voltage, 1kV typ.
- excellent power handling, 7W

Applications

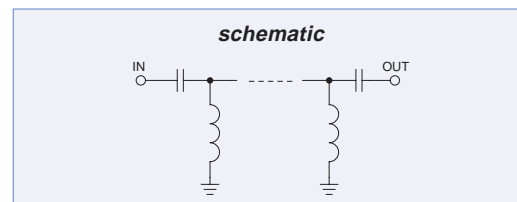
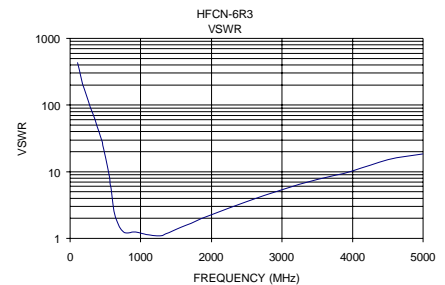
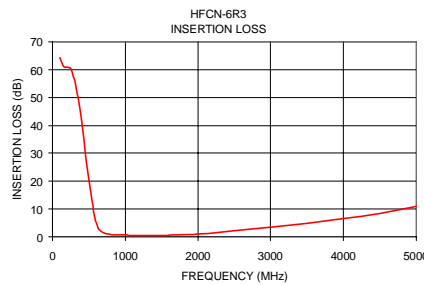
- sub-harmonic rejection and dc blocking
- transmitters/receivers
- lab use

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

MODEL NO.	STOP BAND (MHz)		f _{co} , MHz (loss 3 dB) Typ.	PASSBAND (MHz) (loss < 1.3 dB)	VSWR Stopband Typ.	Frequency (MHz) 1.5:1	POWER INPUT (W)	NO. OF SECTIONS
	HFCN-6R3	380	480	630	760-1960	20:1	760-1450	7

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
100.00	64.22	434.30
160.00	60.98	248.17
260.00	60.03	115.81
380.00	45.72	48.26
480.00	24.38	21.73
580.00	7.68	5.66
640.00	2.63	2.06
760.00	1.01	1.23
880.00	0.76	1.25
980.00	0.64	1.22
1080.00	0.55	1.13
1280.00	0.46	1.09
1460.00	0.49	1.32
2000.00	1.11	2.27
2500.00	2.18	3.52
3000.00	3.48	5.34
3500.00	4.92	7.66
4000.00	6.62	10.31
4500.00	8.43	15.00
5000.00	10.88	18.50



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