Ceramic

High Pass Filter

1760 to 4800 MHz

NEW!

HFCN-15

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.

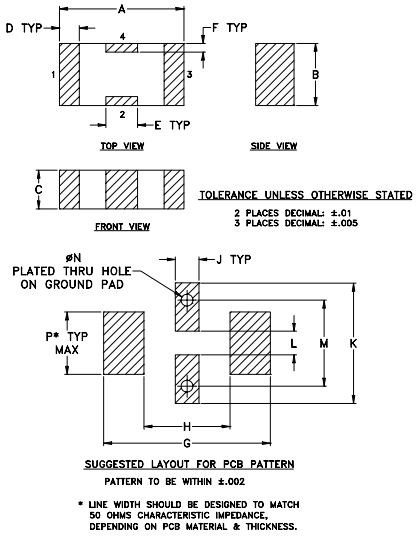
**derate linearly to 3W at 100°C ambient.*

Pin Connections

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

** pins 1&3 can be interchanged

Outline Drawing

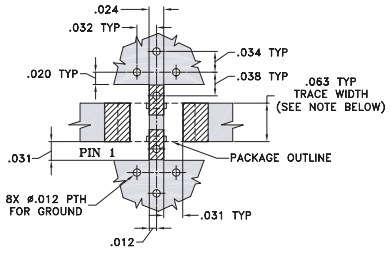


Outline Dimensions (inch / mm)

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 RO4350 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

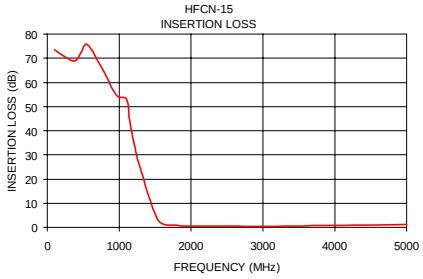
- sub-harmonic rejection and dc blocking
- transmitters/receivers
- lab use

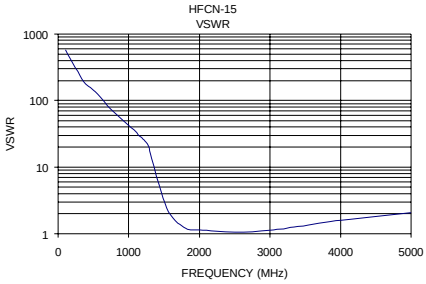
Electrical Specifications (T_{AMB}=25°C)

MODEL NO.	STOP BAND (MHz) (loss >40 dB)	(loss >20 dB)	fco, MHz Nom. (loss 3 dB) Typ.	PASSBAND (MHz) (loss < 1.3 dB)	VSWR Stopband Typ.	VSWR Frequency (MHz) 1.5:1	POWER INPUT (W)	NO. OF SECTIONS
HFCN-15	1140	1280	1530	1760-4800	20:1	1620-3400	7	7

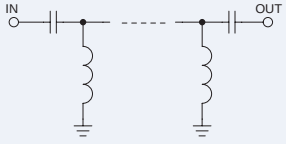
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
100.00	73.46	579.06
360.00	68.87	193.02
460.00	72.12	157.93
560.00	75.69	124.09
760.00	65.80	72.39
960.00	54.69	45.72
1100.00	53.18	34.07
1140.00	44.86	29.96
1180.00	38.27	28.03
1220.00	32.81	25.19
1280.00	25.63	20.95
1540.00	3.26	2.48
1780.00	0.94	1.23
2000.00	0.67	1.14
2500.00	0.51	1.06
3000.00	0.46	1.13
3400.00	0.52	1.29
4000.00	0.76	1.59
4500.00	0.91	1.83
5000.00	1.19	2.09





schematic



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