

# Bandpass Filter

## Features

- good VSWR, 1.3:1 typ @ passband
- high rejection•small size 8.89" X 8.89"
- shielded case
- aqueous washable

## Applications

- harmonic rejection
- transmitters / receivers
- navigation

## HT-RBP-98+



50Ω 75to 131 MHz

### Bandpass Filter Electrical Specifications (T<sub>AMB</sub>= 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 4dB)	STOPBAND (MHz)				VSWR		
		(Loss > 20dB)		(Loss > 35dB)		Passband		Stopband
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
103	75-131	55	170	45	210-2000	1.3	1.7	18

### Maximum Ratings

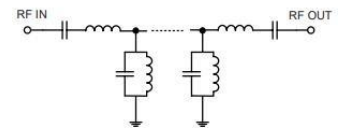
Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

RF Power Input\* 0.5W max.

Permanent damage may occur if any of these limits are exceeded.

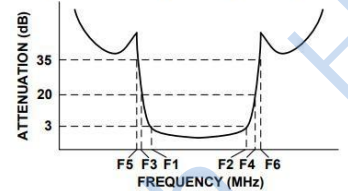
### Functional Schematic



### Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.3	97.25	868.59
20	88.97	434.30
45	44.01	91.43
55	27.51	33.42
62	14.67	10.75
66	7.56	3.83
70	3.49	1.40
75	2.29	1.17
103	1.65	1.26
131	2.37	1.28
137	3.66	1.98
143	7.29	4.56
150	13.21	10.19
170	27.25	28.96
210	43.79	62.05
650	90.23	157.93
1000	77.43	108.58
2000	60.02	59.91

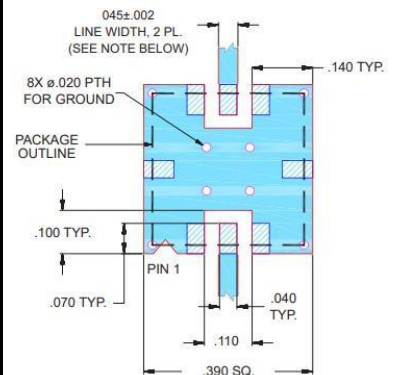
### Typical Frequency Response



### Pad Connections

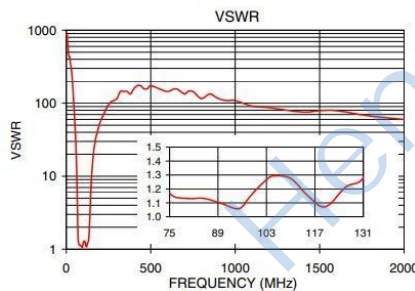
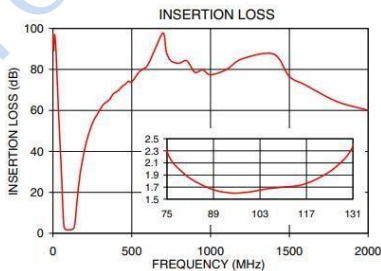
RF IN	2
RF OUT	6
GROUND	1, 3, 4, 5, 7, 8

### Demo Board MCL P/N: TB-332 Suggested PCB Layout (PL-176)

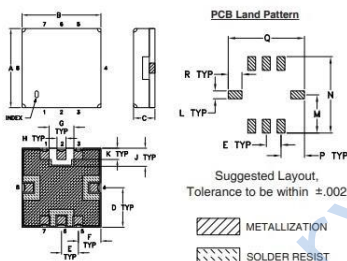


#### NOTES:

1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS .025 ± .002"; 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.
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### Outline Drawing



### Outline Dimensions: Unit (mm)

A	8.89	B	8.89	C	2.54
D	4.45	E	1.91	F	2.54
G	2.79	H	1.02	J	2.03
K	1.27	L	1.02	M	4.95
N	9.91	P	3.05	Q	9.91
R	1.78	wt	0.25		