

Bandpass Filter

Features

- good VSWR, 1.3:1 typ @ passband
- high rejection•small size 0.35" X 0.35"
- shielded case
- aqueous washable

Applications

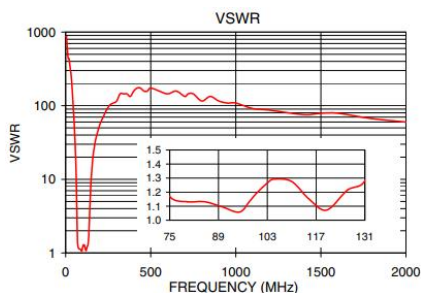
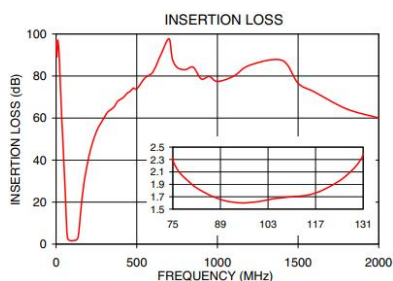
- harmonic rejection
- transmitters / receivers
- navigation

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

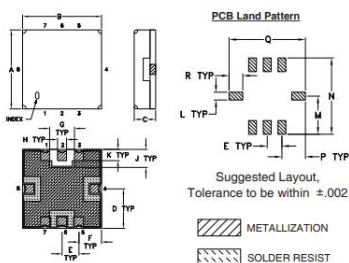
CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 3.5dB)	STOPBAND (MHz)				VSWR		
		(Loss > 20dB)		(Loss > 35dB)		Passband		Stopband
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
103	75-131	55	170	45	210-2000	1.3	1.8	18

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



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		

JY-RBP-98+



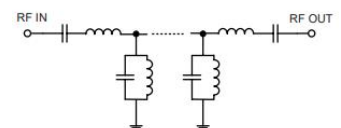
50Ω 75to 131 MHz

Maximum Ratings

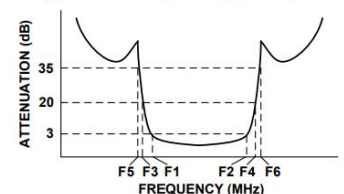
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.5W max.

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

Functional Schematic



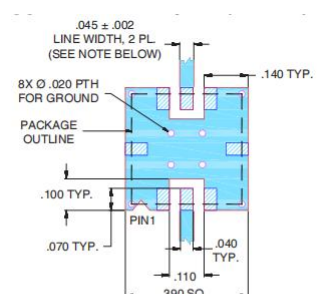
Typical Frequency Response



Pad Connections

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

Suggested PCB Layout



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.
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK