

Bandpass Filter

Features

- VSWR, 1.4:1 typ. @ passband
- small size 0.35" x 0.35"
- shielded case
- aqueous washable

Applications

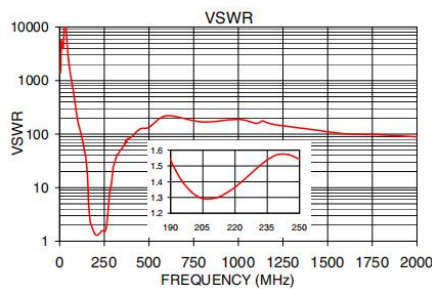
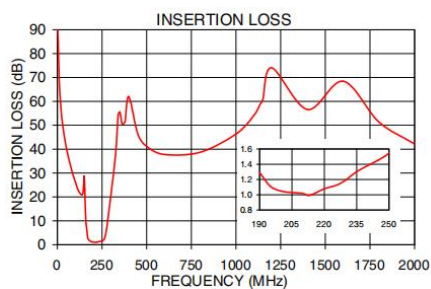
- harmonic rejection
- transmitters / receivers
- military radio

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

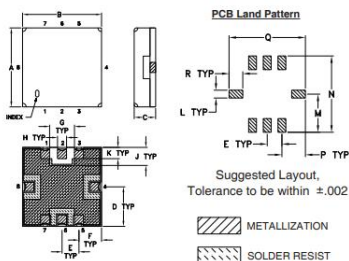
CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 4dB)	STOPBAND (MHz)				VSWR		
		(Loss > 20dB)		(Loss > 35dB)		Passband		Stopband
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
220	190-250	80	310	50	330-2000	1.4	1.8	18

Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	90.42	1506.73
50	40.56	2348.96
80	31.28	543.36
156.5	15.58	14.09
163	7.51	4.65
169.45	3.07	2.50
190	1.29	1.53
210	1.02	1.29
220	1.08	1.37
230	1.19	1.48
250	1.55	1.54
265	2.83	2.24
275	6.33	5.31
290	14.87	12.19
310	27.00	31.00
330	41.62	43.84
1000	46.35	188.62
2000	42.15	88.61



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-220W+



50Ω 190 to 250 MHz

Maximum Ratings

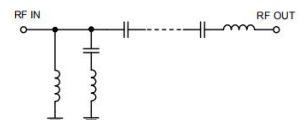
Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

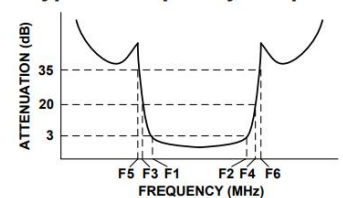
RF Power Input* 0.5 W at 25°C

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

Functional Schematic



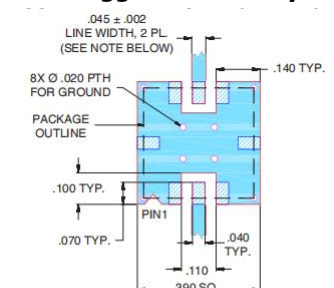
Typical Frequency Response



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