

Bandpass Filter

Features

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

Applications

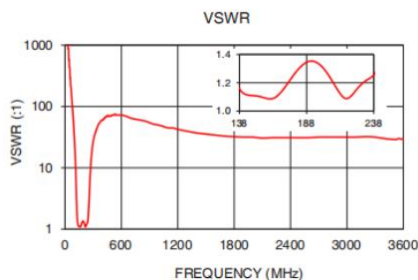
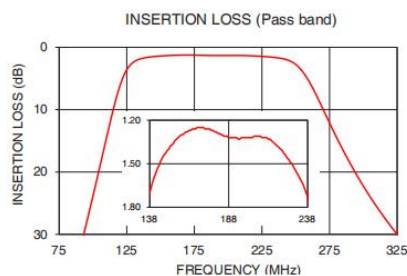
- base station
- harmonic rejection
- transmitters/receivers

Electrical Specifications at 25°C

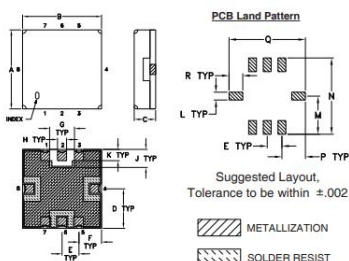
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	188	—	MHz
	Insertion Loss	F1-F2	—	1.80	3.00	dB
	VSWR	F1-F2	—	1.38	1.92	:1
Stop Band, Lower	Insertion Loss	DC-F3	20	27	—	dB
	VSWR	DC-F3	—	20	—	:1
Stop Band, Upper	Insertion Loss	F4-F5	20	25	—	dB
	VSWR	F4-F5	—	20	—	:1

Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	90.54	17371.78
70	50.37	144.77
92	31.06	48.26
96	27.49	38.61
104	20.16	22.00
112	12.69	10.62
120	6.15	4.01
126	3.28	2.04
138	1.70	1.16
188	1.32	1.34
238	1.73	1.26
252	3.14	2.20
263	6.73	5.27
278	13.48	13.60
296	20.81	24.48
315	27.14	34.07
325	30.00	37.77
500	55.97	72.39
2000	75.06	31.60
3600	38.61	28.96



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-188+



50Ω 138 to 238 MHz

Maximum Ratings

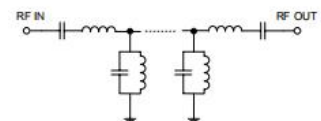
Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

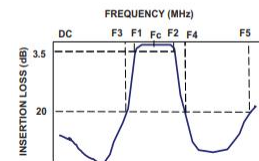
RF Power Input* 0.25W at 25°C

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

Functional Schematic



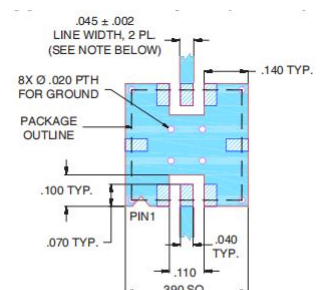
Typical Frequency Response



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