Jieying Communication Technology (Shenzhen) Co., Ltd.
http://www.jytxjs.cn

Bandpass Filter

JY-RBP-130+

50Ω 95 to 180 MHz

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

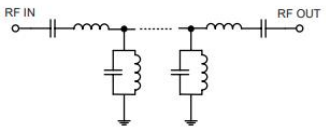
Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.25 W at 25°C

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

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

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 4dB)	STOPBAND (MHz) (Loss>20dB)		(Loss>35dB)		VSWR Passband		VSWR Stopband
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
130	95-180	58	260	48	310-2500	1.3	1.9	20

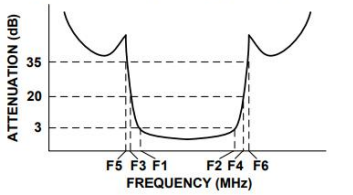
Functional Schematic



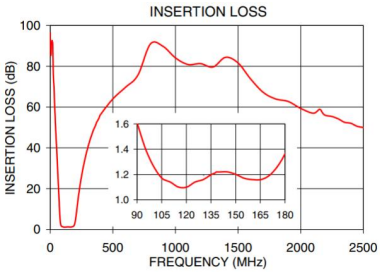
Typical Performance Data at 25° C

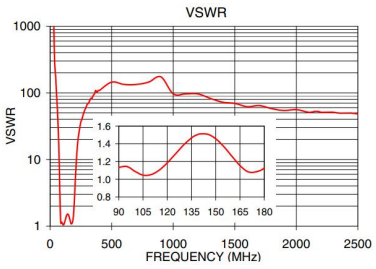
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.5	96.41	1737.18
48	43.71	127.74
58	31.01	63.87
70	15.40	15.81
75	8.88	6.71
80	4.01	2.45
85	2.09	1.22
95	1.40	1.14
110	1.14	1.05
130	1.16	1.39
150	1.20	1.45
180	1.37	1.13
200	4.01	3.23
210	8.44	7.76
230	18.23	22.58
260	29.35	41.37
310	42.28	69.49
2500	49.95	48.26

Typical Frequency Response

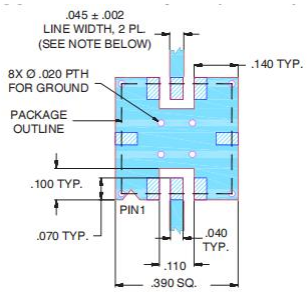


Pad Connections	
RF IN	2
RF OUT	6
GROUND	1, 3, 4, 5, 7, 8



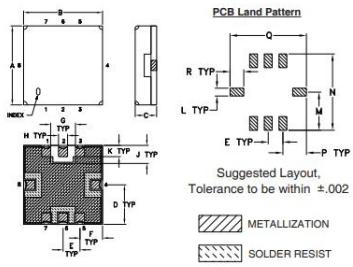


Suggested PCB Layout



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

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		

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