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

Bandpass Filter

JY-RBP-263+

50Ω 230 to 297 MHz

Features
- linear phase, up to ±8deg typ. @ Fc ±43MHz
- good VSWR, 1.2:1 typ. @ passband
- small size 0.35" x 0.35"
- shielded case
- aqueous washable

Applications
- harmonic rejection
- transmitters / receivers
- navigation

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.

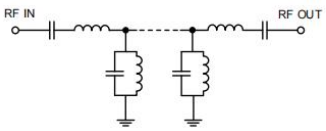
Bandpass Filter Electrical Specifications (T_{AMB}= 25℃)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 4dB)	STOPBAND (MHz) (Loss>20dB)		(Loss>35dB)		VSWR	
		F3	F4	F5	F6	Passband Max.	Stopband Typ.
Fc	F1 - F2						
263.5	230-297	140	360	80	500-1000	1.7	18

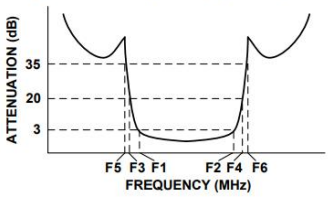
Typical Performance Data at 25° C

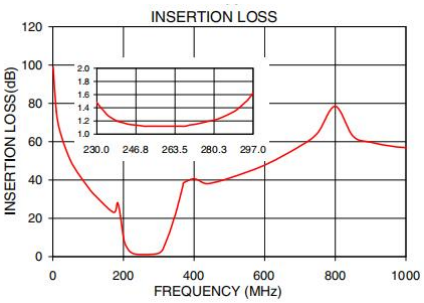
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.0	99.02	579.06
10.0	75.88	289.53
80.0	41.13	96.51
120.0	31.89	59.91
140.0	27.77	43.44
200.0	9.98	3.48
220.5	2.35	2.04
230.0	1.47	1.40
263.5	1.12	1.17
297.0	1.63	1.12
306.5	2.66	1.81
325	9.58	7.94
350	23.83	27.59
360	30.23	34.75
400	40.61	54.29
500	41.00	72.39
1000	56.91	82.73

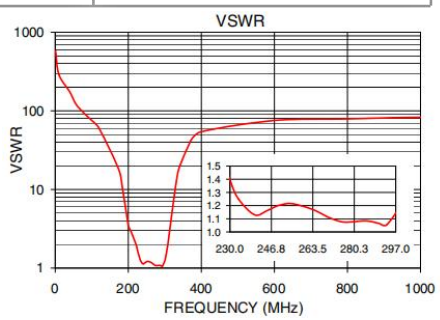
Functional Schematic



Typical Frequency Response



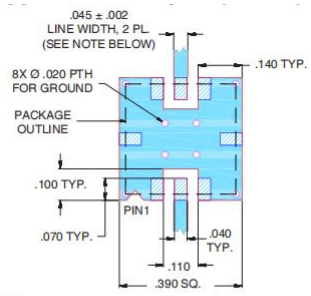




Pad Connections

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

Suggested PCB Layout

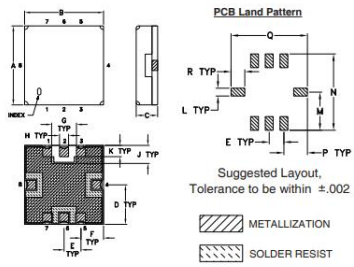


NOTES:
1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS .025" ± .002", COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

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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