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

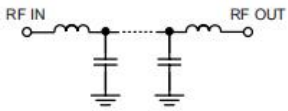
Low Pass Filter

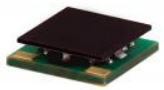
JY-ULP-190+

Features
- High rejection
- Sharp insertion loss roll-off
- Ultra miniature surface mount package

Applications
- Wireless communications
- Receivers / Transmitters
- Lab use

Functional Schematic





50Ω DC to 190 MHz

Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-190	-	1.5	2.0	dB
	Freq. Cut-Off	220	-	3.0	-	dB
	VSWR	DC-190	-	1.5	-	:1
Stop Band	Insertion Loss	264-300	20	27	-	dB
		300-1300	40	47	-	dB
		1300-3000	-	20	-	dB
	VSWR	264-1300	-	20	-	:1

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.6 W Max. @ 25°C

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

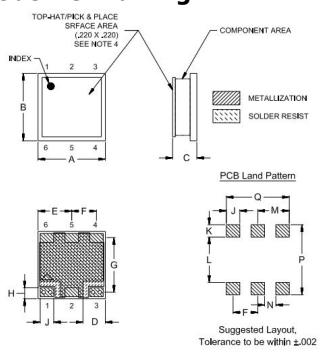
Pin Connections

INPUT	1
OUTPUT	3
GROUND	2,4,5,6

Typical Performance Data at 25°C

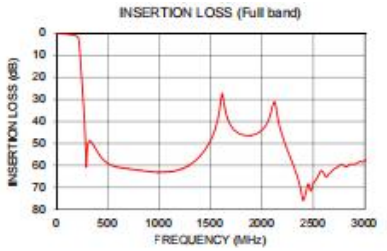
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	0.18	1.03	1	3.77
50	0.37	1.24	5	3.43
100	0.50	1.04	8	3.42
190	1.29	1.34	24	3.37
200	1.53	1.31	40	3.37
217	3.23	1.92	56	3.44
220	4.30	2.60	80	3.65
230	9.97	6.78	96	3.83
245	20.18	14.68	104	3.92
260	30.37	20.57	112	4.01
264	33.22	21.93	120	4.12
300	52.43	32.24	128	4.25
500	59.00	87.32	136	4.42
750	61.84	175.38	144	4.64
1000	63.14	252.97	160	5.29
1300	59.71	272.65	168	5.69
1500	48.57	230.26	176	6.15
2000	43.89	154.74	184	6.66
2500	68.01	114.26	186	6.80
3000	57.75	89.75	190	7.15

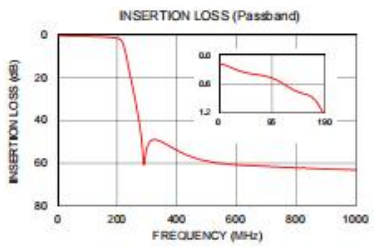
Outline Drawing

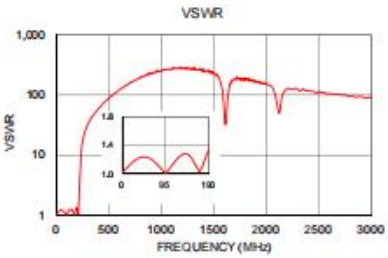


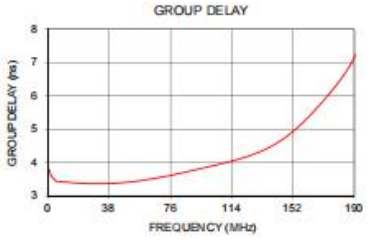
Outline Dimensions：Unit (mm)

A	6.35	J	1.27
B	6.35	K	1.17
C	2.10	L	4.27
D	1.90	M	2.97
E	3.18	N	1.07
F	2.34	P	6.60
G	5.11	Q	5.94
H	1.04	WT	0.25g

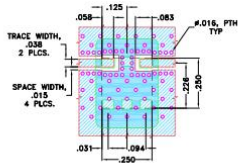








Suggested PCB Layout



NOTES:
1. TRACE WIDTH IS SHOWN FOR ROGERS (RO4350B) WITH DIELECTRIC THICKNESS .020"±.0015", 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 SOLDERMASK

JY-ULP-190+

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