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

High Pass Filter

JY-RHP-700+

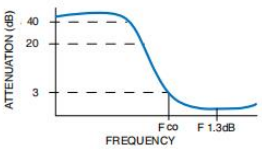


50Ω 700 to 3000 MHz

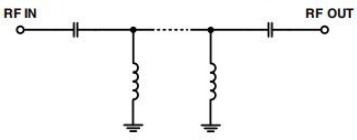
Features
- low insertion loss, 0.3dB typ. @ passband
- high rejection
- shielded case
- aqueous washable

Applications
- transmitters / receivers
- sub-harmonic rejection
- military communications

Typical Frequency Response



Functional Schematic



Pin Connections

INPUT	2
OUTPUT	6
GROUND	1, 3, 4, 5, 7, 8

Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Stop Band	Reiection Loss	DC-500	20	30	-	dB
	VSWR	DC-500	-	20	-	:1
Pass Band	Insertion Loss	700-3000	-	0.6	2.0	dB
	VSWR	700-3000	-	1.2	1.8	:1

Typical Performance Data at 25° C

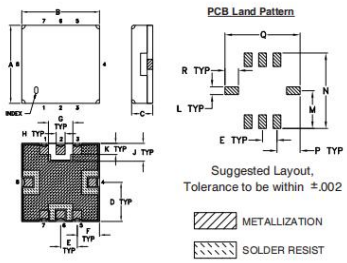
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	99.92	434.30
280	51.65	347.44
500	35.33	48.26
540	17.82	28.03
575	7.77	9.74
600	3.11	3.65
618	1.49	2.08
638	0.79	1.42
700	0.42	1.06
1000	0.20	1.12
1320	0.17	1.16
1670	0.16	1.19
1870	0.15	1.16
1990	0.14	1.12
2200	0.13	1.06
2380	0.15	1.07
2540	0.17	1.14
2760	0.23	1.26
2000	0.29	1.35
3000	0.33	1.41

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W at 25°C

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

Outline Drawing

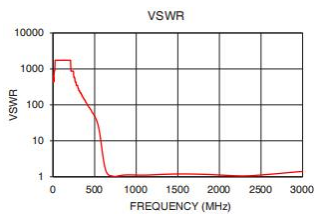


Suggested Layout,
Tolerance to be within ±0.05

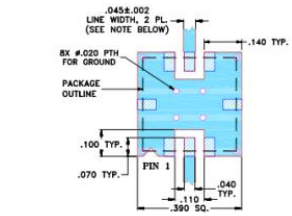
Outline Dimensions: Unit (mm)

A	8.89	B	8.89	C	2.54
D	4.45	E	1.93	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
WT		0.25		R	1.78





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

JY-RHP-700+

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