High Pass Filter

JY-RHP-250+

50Ω 400 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

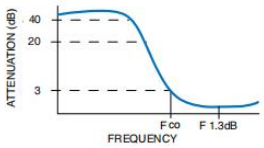
Electrical Specifications (TAMB= 25° C)

STOP BAND (MHz) (Loss>40dB)	STOP BAND (MHz) (Loss>20dB)	FCO,(MHz) Nom. (Loss 3dB)	PASS BAND (MHz) (Loss<1dB)	VSWR (:1) Stopband Typ.	VSWR (:1) Passband Typ.
DC-135	DC-180	250	400-3000	18	1.2

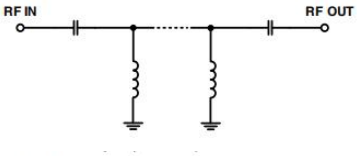
Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	88.73	6481.29
10	91.41	4268.88
50	86.03	1031.74
100	65.23	231.93
120	55.82	164.17
135	49.07	128.61
180	29.70	53.26
200	21.61	34.93
220	13.71	18.83
240	6.51	6.87
250	3.80	3.78
260	2.10	2.20
290	0.79	1.11
400	0.45	1.11
600	0.31	1.04
1000	0.29	1.11
2000	0.43	1.34
3000	0.54	1.35

Typical Frequency Response



Functional Schematic



Pin Connections

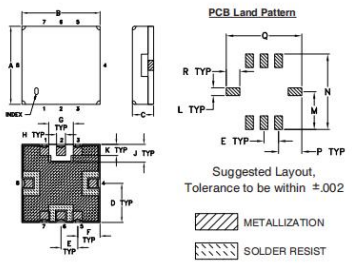
INPUT	2
OUTPUT	6
GROUND	1, 3, 4, 5, 7, 8

Maximum Ratings

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

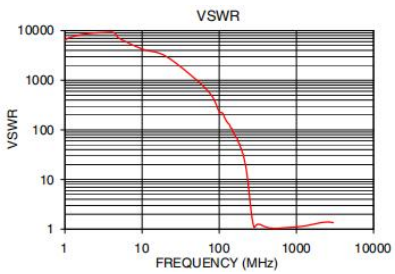
Permanent damage may occur if any of these limits are exceeded.

Outline Drawing

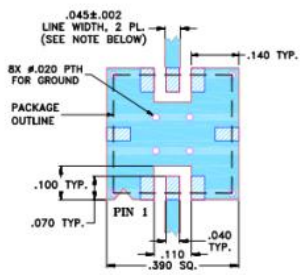


Outline Dimensions: Unit (mm)

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

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