

## Features

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

## Applications

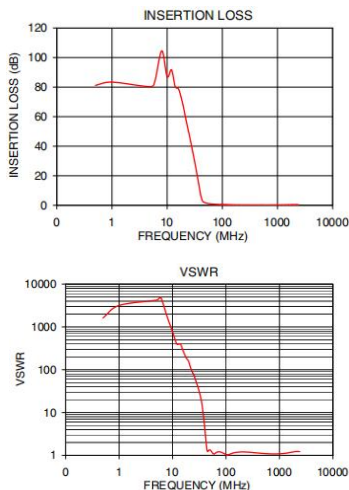
- transmitters / receivers
- sub-harmonic rejection
- military communications

## Electrical Specifications (T<sub>AMB</sub>= 25° C)

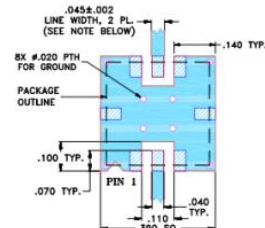
| STOP BAND<br>(MHz) |             | FCO <sub>0</sub> (MHz)<br>Nom. | PASS BAND<br>(MHz) | VSWR<br>(:1)     |                  |
|--------------------|-------------|--------------------------------|--------------------|------------------|------------------|
| (Loss>40dB)        | (Loss>20dB) | (Loss 3dB)                     | (Loss<1dB)         | Stopband<br>Typ. | Passband<br>Typ. |
| DC-25              | DC-32       | 44                             | 95-2400            | 18               | 1.2              |

## Typical Performance Data at 25° C

| Frequency<br>(MHz) | Insertion Loss<br>(dB) | VSWR<br>(:1) |
|--------------------|------------------------|--------------|
| 0.5                | 81.20                  | 1622.17      |
| 20                 | 65.37                  | 156.73       |
| 25                 | 48.35                  | 74.66        |
| 32                 | 28.28                  | 28.60        |
| 44                 | 2.82                   | 1.38         |
| 80                 | 0.63                   | 1.19         |
| 95                 | 0.49                   | 1.08         |
| 100                | 0.45                   | 1.05         |
| 120                | 0.37                   | 1.07         |
| 150                | 0.31                   | 1.17         |
| 200                | 0.26                   | 1.20         |
| 300                | 0.21                   | 1.17         |
| 400                | 0.19                   | 1.13         |
| 500                | 0.20                   | 1.11         |
| 1000               | 0.23                   | 1.09         |
| 1600               | 0.33                   | 1.17         |
| 2000               | 0.39                   | 1.22         |
| 2400               | 0.43                   | 1.23         |



## Suggested PCB Layout



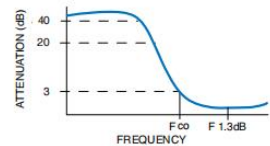
- NOTES:
1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS .025" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
  2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
- DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

## JY-RHP-44+

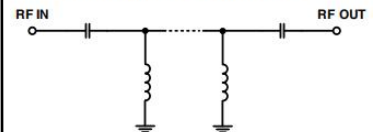


50Ω 95 to 2400 MHz

## Typical Frequency Response



## Functional Schematic



## Pin Connections

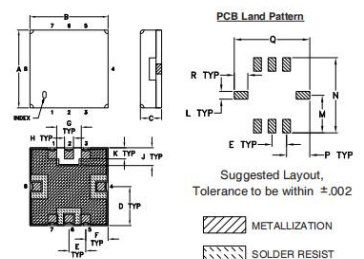
|        |                  |
|--------|------------------|
| INPUT  | 2                |
| OUTPUT | 6                |
| GROUND | 1, 3, 4, 5, 7, 8 |

## Maximum Ratings

|                       |                   |
|-----------------------|-------------------|
| Operating Temperature | -40°C to 85°C     |
| Storage Temperature   | -55°C to 100°C    |
| RF Power Input*       | 0.5W max. 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 |