



## 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)

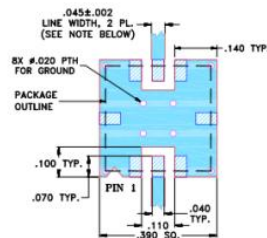
| STOP BAND<br>(MHz)      |        | FCO <sub>1</sub> (MHz)<br>Nom. | PASS BAND<br>(MHz) | VSWR<br>(:1)     |                  |
|-------------------------|--------|--------------------------------|--------------------|------------------|------------------|
| (Loss>40dB) (Loss>20dB) |        | (Loss 3dB)                     | (Loss<1dB)         | Stopband<br>Typ. | Passband<br>Typ. |
| DC-145                  | DC-190 | 260                            | 300-2200           | 20               | 1.3              |

## Typical Performance Data at 25° C

| Frequency<br>(MHz) | Insertion Loss<br>(dB) | VSWR<br>(:1) |
|--------------------|------------------------|--------------|
| 1.0                | 77.96                  | 1465.81      |
| 20                 | 53.97                  | 1737.18      |
| 60                 | 47.15                  | 683.17       |
| 145                | 61.41                  | 149.09       |
| 160                | 46.44                  | 115.91       |
| 190                | 28.47                  | 64.85        |
| 220                | 15.70                  | 28.97        |
| 240                | 8.70                   | 11.67        |
| 250                | 5.78                   | 6.64         |
| 260                | 3.48                   | 3.81         |
| 270                | 1.95                   | 2.32         |
| 280                | 1.13                   | 1.57         |
| 300                | 0.62                   | 1.05         |
| 500                | 0.23                   | 1.06         |
| 1000               | 0.34                   | 1.46         |
| 1500               | 0.25                   | 1.33         |
| 2000               | 0.23                   | 1.03         |
| 2200               | 0.31                   | 1.12         |

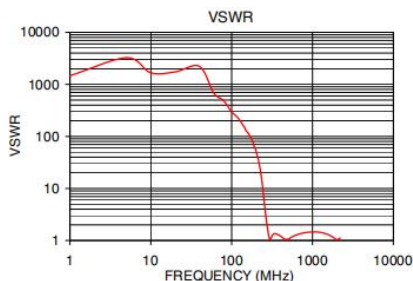


## Suggested PCB Layout



### 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

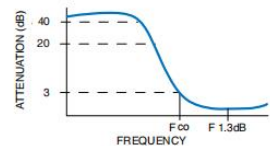


## JY-RHP-260+

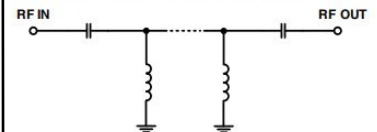


50Ω 300 to 2200 MHz

## Typical Frequency Response



## Functional Schematic



## Pin Connections

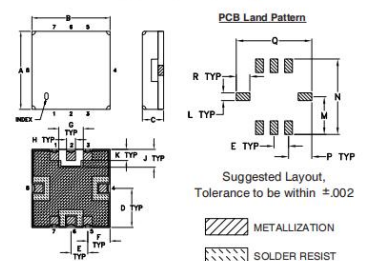
|        |                  |
|--------|------------------|
| INPUT  | 2                |
| OUTPUT | 6                |
| GROUND | 1, 3, 4, 5, 7, 8 |

## Maximum Ratings

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