



# Bandpass Filter

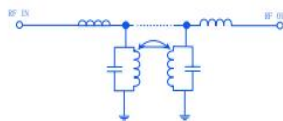
## Features

- Standard small 1008 (2.5mm x 2.0mm) case style
- Low Insertion Loss – Mid band 1.3 dB typical
- Wide rejection band
- Shielded construction preventing filter from de-tuning
- Reduced footprint area by employing LGA (land grid array)
- Surface mountable pick and place standard case style

## Applications

- Satellite Communications

## Functional Schematic



## JY-BFCQ-1162+



50Ω 10.7 to 12.7 GHz

### Maximum Ratings

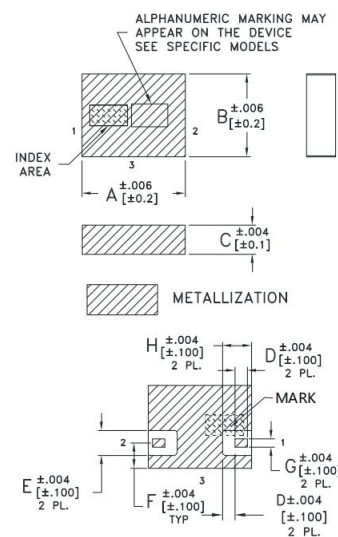
|                       |                 |
|-----------------------|-----------------|
| Operating Temperature | -55°C to 100°C  |
| Storage Temperature   | -55°C to 100°C  |
| RF Power Input*       | 1W max. at 25°C |

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

### Pin Connections

|        |   |
|--------|---|
| RF IN  | 1 |
| RF OUT | 2 |
| GROUND | 3 |

## Outline Drawing

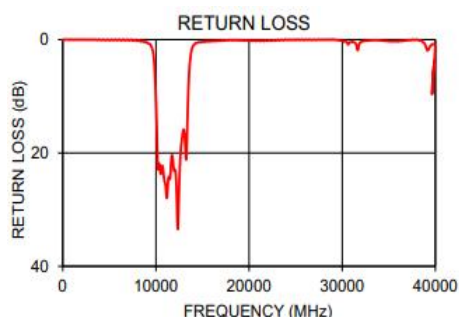


### 外形尺寸 (mm)

| A    | B    | C    | D    | E    | F    | G    | H    | J    | K    | wt    |
|------|------|------|------|------|------|------|------|------|------|-------|
| .098 | .079 | .028 | .012 | .024 | .024 | .008 | .028 | .043 | .024 | grams |
| 2.49 | 2.01 | 0.71 | 0.30 | 0.61 | 0.61 | 0.20 | 0.71 | 1.09 | 0.61 | .019  |

## Electrical Specifications at 25°C

| Parameter        | Frequency(GHz)   | Min.      | Typ. | Max. | Unit |
|------------------|------------------|-----------|------|------|------|
| Pass Band        | Center Frequency | -         | 11.6 | -    | GHz  |
|                  | Insertion Loss   | -         | 1.3  | 3.0  | dB   |
|                  | Return Loss      | -         | 13.0 | -    | dB   |
| Stop Band, Lower | Insertion Loss   | 0.1-7.0   | 40   | 46   | dB   |
|                  |                  | 7.0-8.8   | 20   | 40   |      |
| Stop Band, Upper | Insertion Loss   | 15.1-17.0 | 25   | 38   | dB   |
|                  |                  | 17.0-27.0 | 35   | 40   |      |



## Suggested PCB Layout

