# Bandpass Filter

## JY-BFCQ-1162+



**50Ω 10.7 to 12.7 GHz**

**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

**Electrical Specifications at 25°C**

| Parameter | | Frequency(GHz) | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| Pass Band | Center Frequency<br>Insertion Loss<br>Return Loss | -<br>10.7-12.7<br>10.7-12.7 | -<br>-<br>9.6 | 11.6<br>-<br>13.0 | -<br>3.0<br>- | GHz<br>dB<br>dB |
| Stop Band, Lower | Insertion Loss | 0.1-7.0<br>7.0-8.8 | 40<br>20 | 46<br>40 | -<br>- | dB |
| Stop Band, Upper | Insertion Loss | 15.1-17.0<br>17.0-27.0 | 25<br>35 | 38<br>40 | -<br>- | dB |

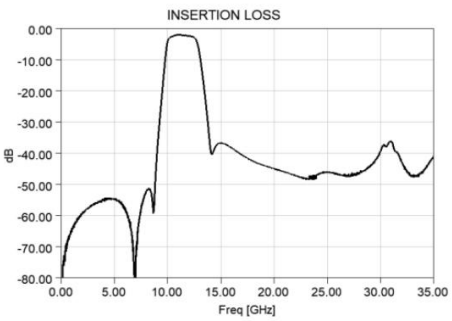
**Maximum Ratings**

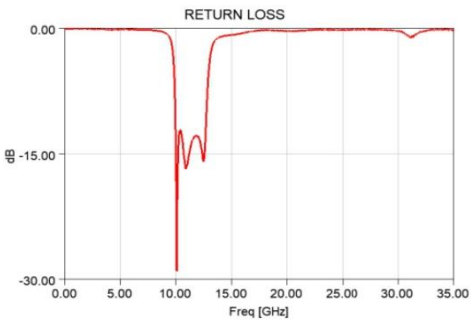
| | |
|---|---|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| RF Power Input* | 1W max. .at 25°C |

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

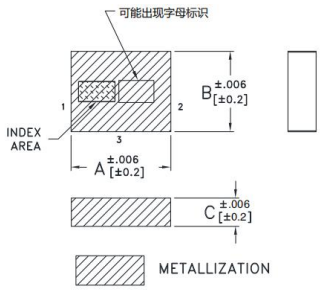
**Pin Connections**

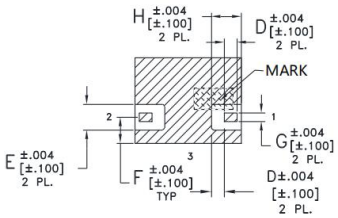
| | |
|---|---|
| RF IN | 1 |
| RF OUT | 2 |
| GROUND | 3 |




**Outline Drawing**

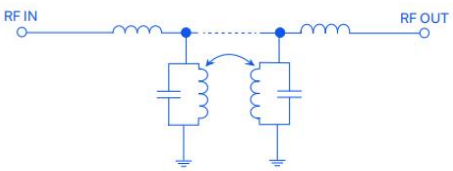


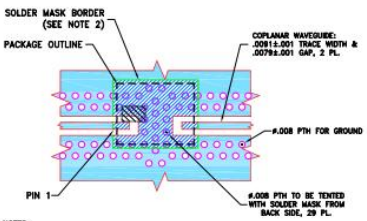

**外形尺寸 ( inch / mm )**

| A | B | C | D | E | F | G | H | J | K | wt |
|---|---|---|---|---|---|---|---|---|---|---|
| .098 | .079 | .031 | .012 | .024 | .024 | .008 | .028 | .043 | .024 | grams |
| 2.49 | 2.01 | 0.80 | 0.30 | 0.61 | 0.61 | 0.20 | 0.71 | 1.09 | 0.61 | .019 |

**FUNCTIONAL SCHEMATIC**




**Suggested PCB Layout**




NOTES:
1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR MEGTRON-7 R5785(N); DIELECTRIC THICKNESS: .0048±.001; CLOTH STYLE: 2116; COPPER: HVLP/HVLP. FOR OTHER MATERIALS LINE WIDTH & GAP MAY NEED TO BE MODIFIED.
2. SOLDER MASK OPENING FOR COMPONENT SOLDERING HAS BEEN INCREASED AGAINST PCB LAND PATTERN RECOMMENDATIONS PER ML100BC-6 AND CAN BE DEVIATED FROM THIS DRAWING TO COMPLY WITH CUSTOMERS' DESIGN RULES.
3. 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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