

# Bandpass Filter

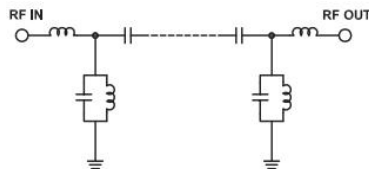
## Features

- Narrow bandwidth
- Sharper cut-off
- Shielded package

## Applications

- Radio test equipment
- Receiver / Transmitter
- Harmonic rejection

## Functional Schematic



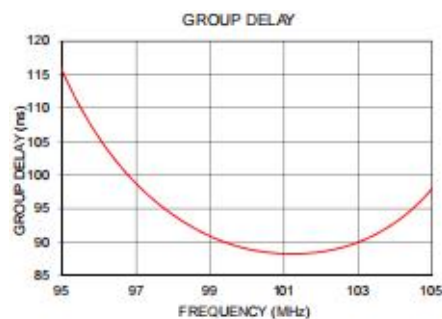
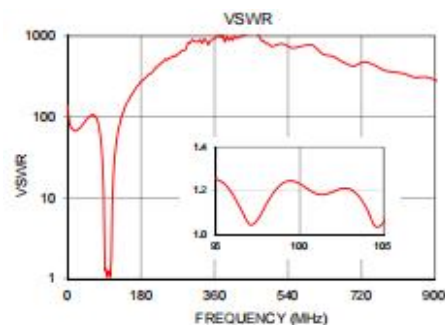
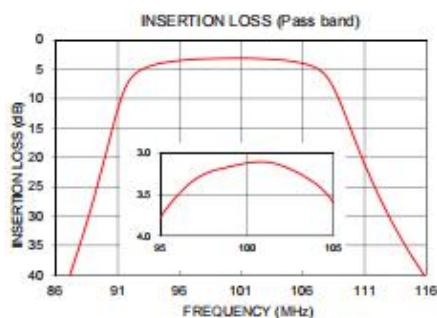
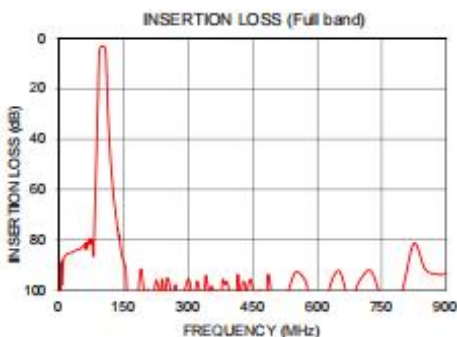
## JY-BPF-F100+



50Ω 95 to 105 MHz

## Electrical Specifications at 25°C

| Parameter        |                  | Frequency(MHz) | Min. | Typ. | Max. | Unit |
|------------------|------------------|----------------|------|------|------|------|
| Pass Band        | Center Frequency | -              | -    | 100  | -    | MHz  |
|                  | Insertion Loss   | 95-105         | -    | 5    | 6    | dB   |
|                  | VSWR             | 95-105         | -    | 1.58 | 1.92 | :1   |
| Stop Band, Lower | Insertion Loss   | DC-85          | 40   | 45   | -    | dB   |
|                  | VSWR             | DC-85          | -    | 20   | -    | :1   |
| Stop Band, Upper | Insertion Loss   | 120-900        | 40   | 44   | -    | dB   |
|                  | VSWR             | 120-900        | -    | 20   | -    | :1   |



## Maximum Ratings

Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

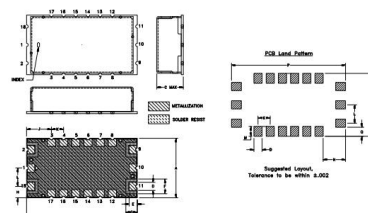
RF Power Input\* 1W max @ 25°C

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

## Pad Connections

|               |                                    |
|---------------|------------------------------------|
| INPUT         | 18                                 |
| OUTPUT        | 9                                  |
| GROUND        | 1,3,4,5,6,7,8,10,12,13,14,15,16,17 |
| NO CONNECTION | 2,11                               |

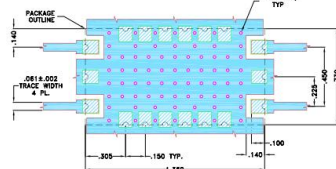
## Outline Drawing



## Outline Dimensions: Unit ( mm )

|    |       |   |       |
|----|-------|---|-------|
| A  | 18.54 | J | 7.75  |
| B  | 34.54 | K | 3.81  |
| C  | 8.89  | L | 5.72  |
| D  | 2.54  | M | 3.05  |
| E  | 2.54  | N | 6.99  |
| F  | 4.57  | P | 35.56 |
| G  | 3.56  | Q | 2.79  |
| H  | 3.56  | R | 19.56 |
| WT | 6.0g  |   |       |

## Suggested PCB Layout



- NOTES:
1. TRACE WIDTH IS SHOWN FOR OAK-802, WITH DIELECTRIC THICKNESS 0.027"±0.015". 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 SOLDERMASK