

## Coaxial Band-pass Filter

### 6.2-7.8 GHz/SMA Female

### Model: TLBF-6G2-7G8-E

TLBF-6G2-7G8-E is a coaxial band-pass filter with a passband frequency from 6.2 to 7.8 GHz and a rejection frequencies from DC-5.7 GHz and 8.3-12GHz. The maximum insertion loss of the filter is 1.0 dB and the minimum rejection is 40 dB.

#### Features:

- Passband Frequency Range 6.2 to 7.8 GHz
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts
- Field Replaceable RF Connectors

#### Applications:

- Instrumentations
- Radar Systems
- System Integrations

#### Electrical Characteristics:

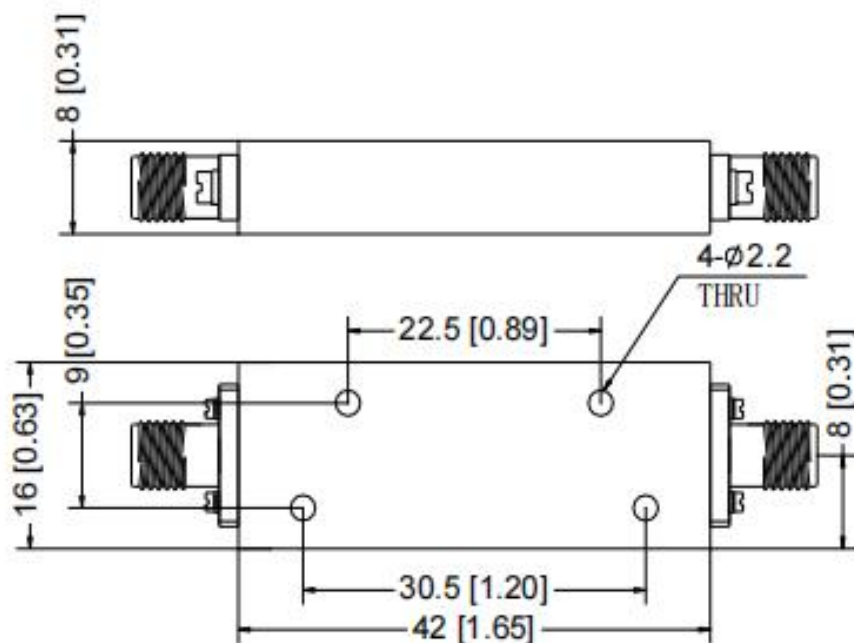
| Parameter                | Min                          | Typ | Max | Units |
|--------------------------|------------------------------|-----|-----|-------|
| Passband Frequency range | 6.2                          |     | 7.8 | GHz   |
| Band Width               |                              |     | 1.6 | GHz   |
| Passband Insertion Loss  |                              |     | 1.0 | dB    |
| Pass Band Ripple         | 0.9                          |     |     | dB    |
| Rejection                | ≥40dB@DC-5.7GHz<br>8.3-12GHz |     |     | dB    |
| Power Handling           |                              |     | 10  | W     |
| VSWR                     |                              |     | 1.6 | :1    |
| Impedance                | 50                           |     |     | Ohms  |

#### Envrionmental And Physical Characteristics:

| Description          | Parameter                      | Units |
|----------------------|--------------------------------|-------|
| Operating Temerature | -40 To +70                     | °C    |
| Material             | Gold-plated oxygen-free copper |       |
| Connectors           | SMA Female                     |       |

Outline Drawing:

Unit:mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

## Ordering Information:

| Base Number    | Description                                                                                                | Revision |
|----------------|------------------------------------------------------------------------------------------------------------|----------|
| TLBF-6G2-7G8-E | Coaxial Band-pass Filter, Passband frequency range: 6.2-7.8GHz, Passband Insertion Loss: 1.0dB, SMA Female | Rev.1.0  |