

## Coaxial Band-pass Filter

### 4-12 GHz/SMA Female

**Model: TLBF-4G-12G-X**

TLBF-4G-12G-X is a coaxial band-pass filter with a passband frequency from 4 to 12 GHz and a rejection frequencies @3.2GHz and 13.8-18 GHz. The maximum insertion loss of the filter is 1.5 dB and the typical rejection is 50 dB.

#### Features:

- Passband Frequency Range 4 to 12 GHz
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts

#### Applications:

- Instrumentations
- Radar Systems
- System Integrations

#### Electrical Characteristics:

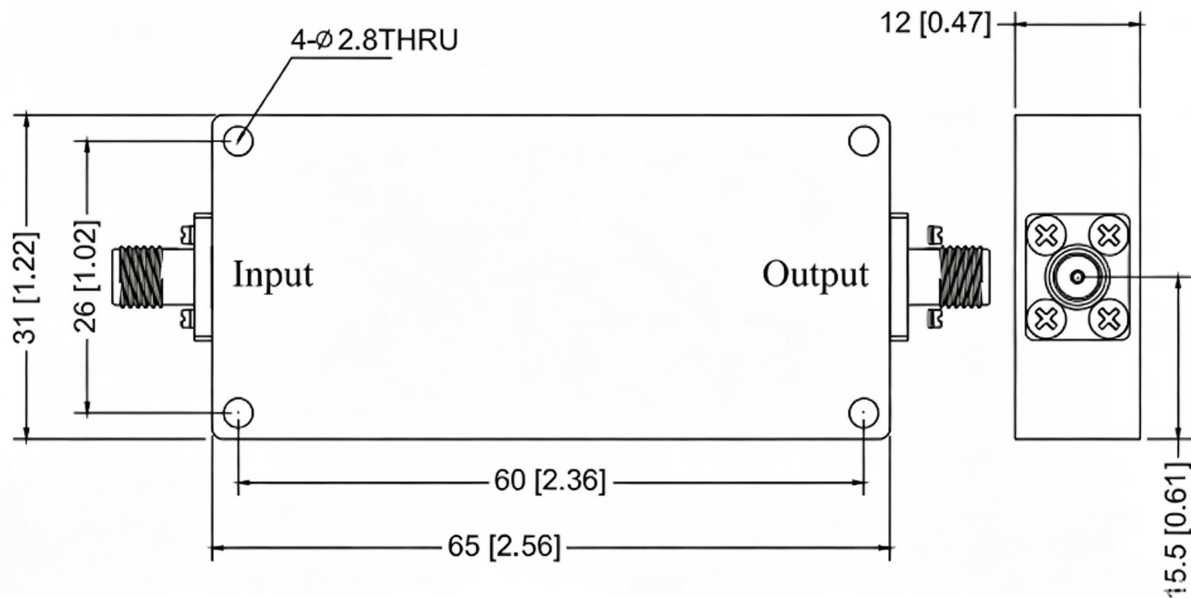
| Parameter                | Min                        | Typ | Max | Units |
|--------------------------|----------------------------|-----|-----|-------|
| Passband Frequency range | 4                          |     | 12  | GHz   |
| Band Width               |                            |     | 8   | GHz   |
| Passband Insertion Loss  |                            |     | 1.5 | dB    |
| Pass Band Ripple         |                            |     | 1.2 | dB    |
| Rejection                | >50dB@3.2Ghz<br>13.8-18Ghz |     |     |       |
| Power Handling           |                            |     | 15  | W     |
| VSWR                     |                            |     | 1.8 | :1    |
| Impedance                | 50                         |     |     | Ohms  |

#### Envrionmental And Physical Characteristics:

| Description          | Parameter  | Units |
|----------------------|------------|-------|
| Operating Temerature | -40 To +70 | °C    |
| Connectors           | SMA Female |       |

## Outline Drawing:

Unit:mm

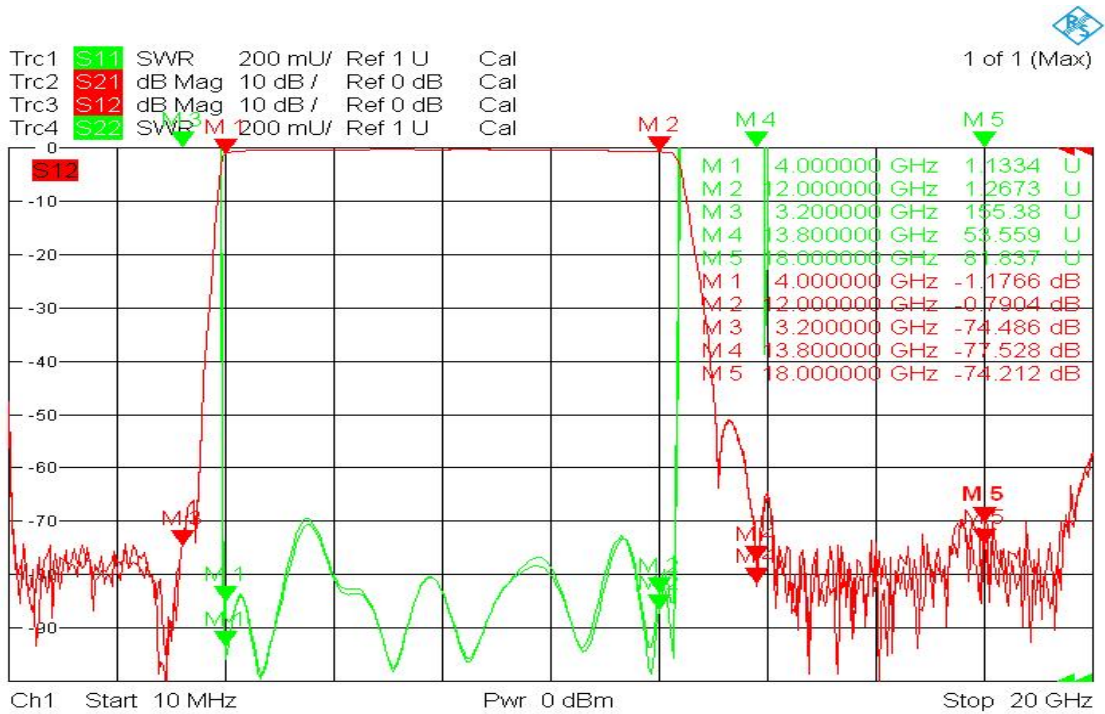


ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

## Ordering Information:

| Base Number   | Description                                                                                             | Revision |
|---------------|---------------------------------------------------------------------------------------------------------|----------|
| TLBF-4G-12G-X | Coaxial Band-pass Filter, Passband frequency range: 4-12GHz, Passband Insertion Loss: 1.5dB, SMA Female | Rev.1.0  |

## Typical Performance Data:



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.