

## Coaxial Band-pass Filter

### 6.5-10GHz/ SMA Female

**Model: TLBF-6G5-10G-X**

TLBF-6G5-10G-X is a coaxial band-pass filter with a passband frequency from 6.5 to 10 GHz and a rejection frequencies from 0 to 5.8GHz and 12.5 to 16GHz. The nominal insertion loss of the filter is 1.5 dB and the typical rejection is 50 dB.

#### Features:

- Passband Frequency Range: 6.5 to 10 GHz
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts

#### Applications:

- Instrumentations
- Radar Systems
- System Integrations

#### Electrical Characteristics:

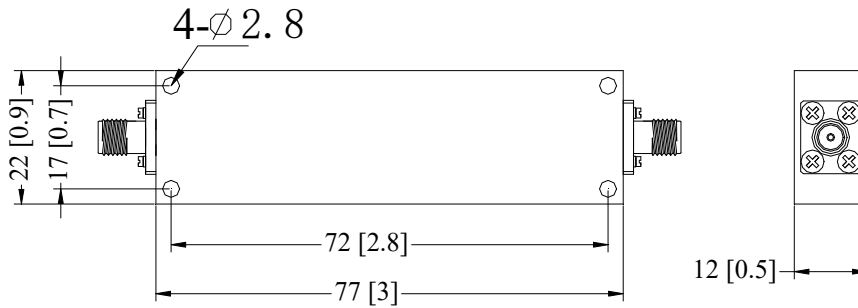
| Parameter                | Min                                 | Typ | Max | Units |
|--------------------------|-------------------------------------|-----|-----|-------|
| Passband Frequency range | 6.5                                 |     | 10  | GHz   |
| Passband Insertion Loss  |                                     |     | 1.5 | dB    |
| Pass Band Ripple         |                                     |     | 1.3 | dB    |
| Rejection                | >30dB@dc-5.8Ghz<br>>50dB@12.5-16Ghz |     |     | dB    |
| Power Handling           |                                     |     | 15  | W     |
| Input VSWR               |                                     |     | 1.8 | :1    |
| Output VSWR              |                                     |     | 1.8 | :1    |
| Impedance                | 50                                  |     |     | Ohms  |

#### Envrionmental And Physical Characteristics:

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

Outline Drawing:

Unit:mm;

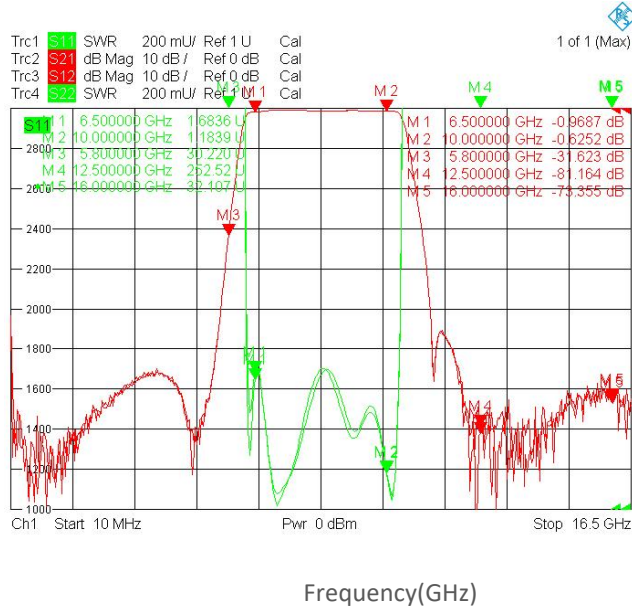


ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Ordering Information:

| Base Number    | Description                                                                                                   | Revision |
|----------------|---------------------------------------------------------------------------------------------------------------|----------|
| TLBF-6G5-10G-X | Coaxial Band-pass Filter, Passband frequency range: 6.5 to 10GHz , 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.