

## Coaxial Band-pass Filter

### 9.95-10.05 GHz/SMA Female

**Model: TLBF-10G-100M-A**

TLBF-10G-100M-A is a coaxial band-pass filter with a passband frequency from 9.95 to 10.05 GHz and a rejection frequencies from 9.7 GHz to 10.3GHz. The maximum insertion loss of the filter is 0.8dB and the minimum rejection is 57 dB.

#### Features:

- Passband Frequency Range 9.95 to 10.05 GHz
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts
- Field Replaceable RF Connectors

#### Applications:

- Instrumentations
- Radar Systems
- System Integrations

#### Electrical Characteristics:

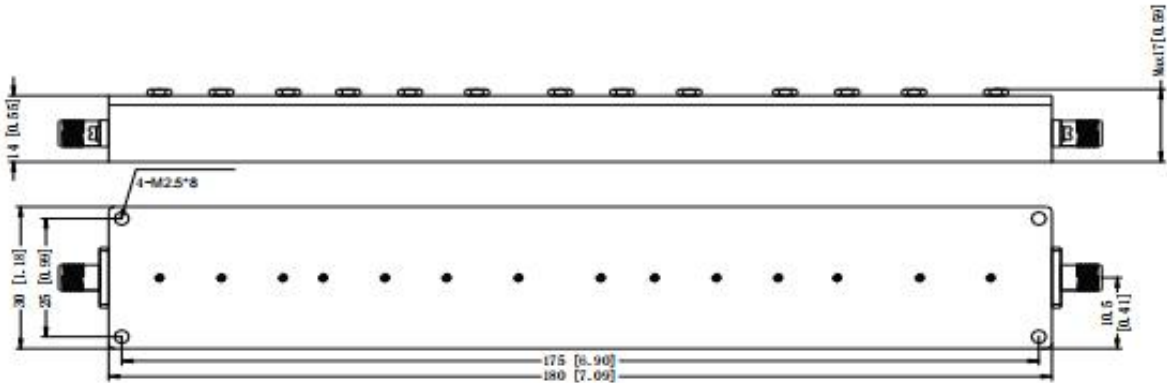
| Parameter                | Min             | Typ | Max   | Units |
|--------------------------|-----------------|-----|-------|-------|
| Passband Frequency range | 9.95            |     | 10.05 | GHz   |
| Band Width               |                 |     | 0.1   | GHz   |
| Passband Insertion Loss  |                 |     | 0.8   | dB    |
| Pass Band Ripple         |                 |     | 0.6   | dB    |
| Rejection                | ≥57dB@FO±300MHz |     |       | dB    |
| Power Handling           |                 |     | 20    | W     |
| VSWR                     |                 |     | 1.6   | :1    |
| Impedance                | 50              |     |       | Ohms  |

#### Envrionmental And Physical Characteristics:

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

Outline Drawing:

Unit:mm

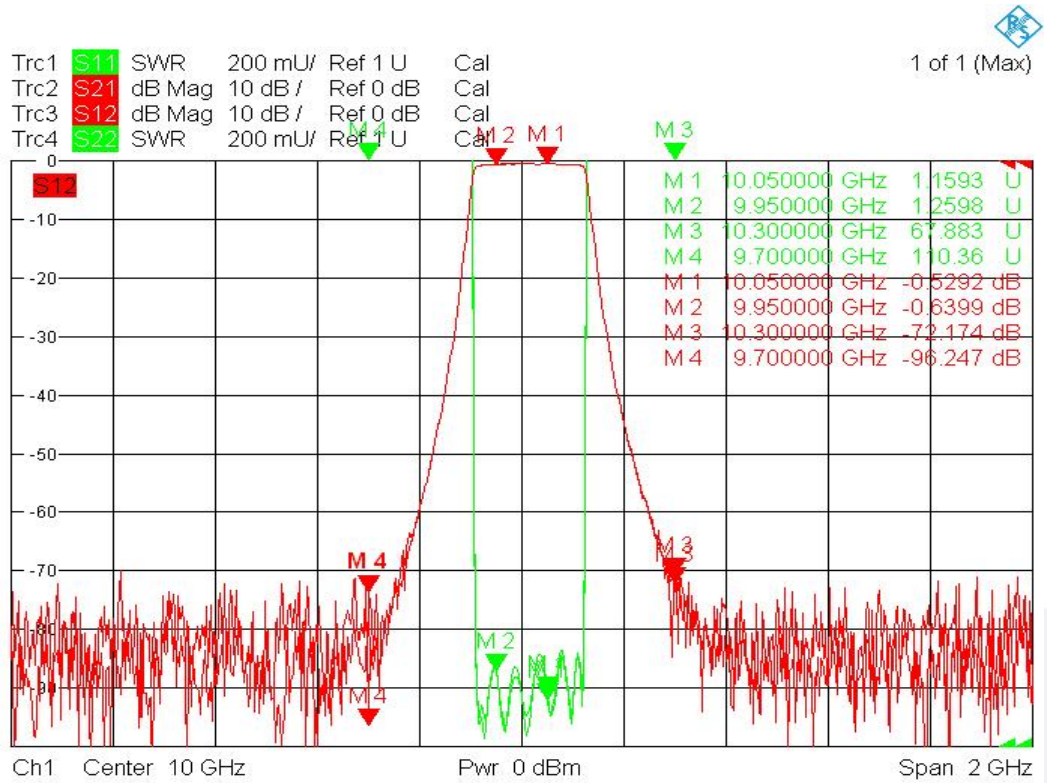


ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Ordering Information:

| Base Number     | Description                                                                                                   | Revision |
|-----------------|---------------------------------------------------------------------------------------------------------------|----------|
| TLBF-10G-100M-A | Coaxial Band-pass Filter, Passband frequency range: 9.95-10.05GHz, Passband Insertion Loss: 0.8dB, 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.