

## Coaxial Band-pass Filter

### 12-18 GHz/SMA Female

**Model: TLBF-12G-18G-X**

TLBF-12G-18G-X is a coaxial band-pass filter with a passband frequency from 12 to 18 GHz and a rejection frequencies from DC-10.9GHz and 20.7-24 GHz. The maximum insertion loss of the filter is 1.5 dB and the typical rejection is 50 dB.

#### Features:

- Passband Frequency Range 12 to 18 GHz
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts

#### Applications:

- Instrumentations
- Radar Systems
- System Integrations

### 电气特性 Electrical Characteristics:

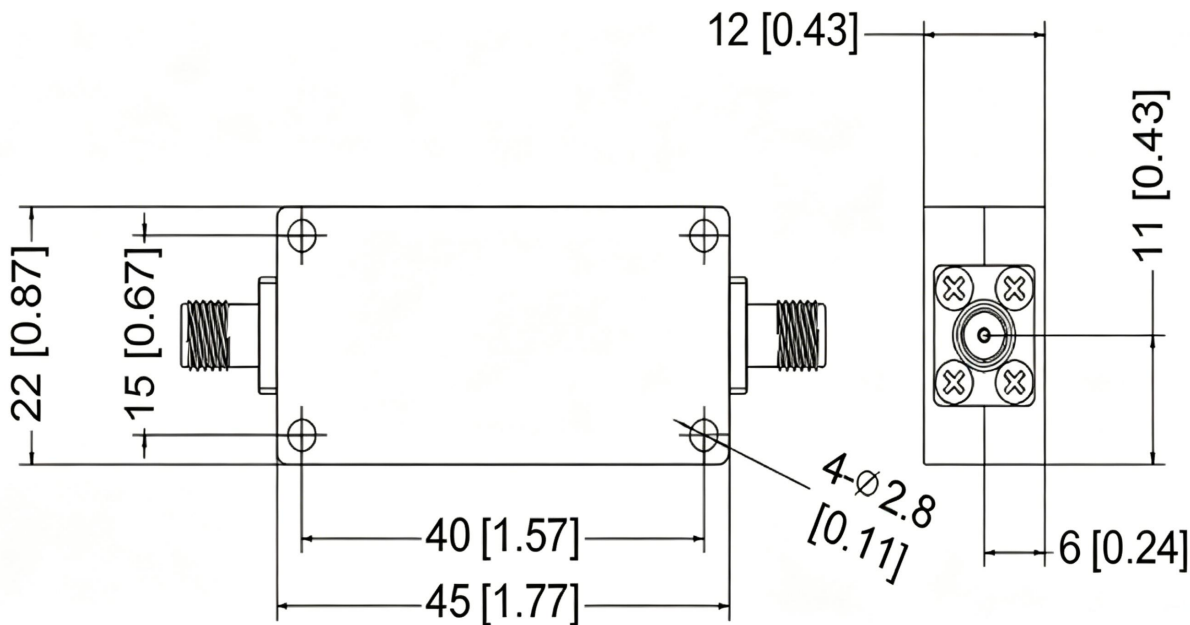
| 参数 Parameter                    | Min                            | Typ | Max | 单位 Units |
|---------------------------------|--------------------------------|-----|-----|----------|
| 通带频率范围 Passband Frequency range | 12                             |     | 18  | GHz      |
| 带宽 Band Width                   |                                |     | 6   | GHz      |
| 通带插损 Passband Insertion Loss    |                                |     | 1.5 | dB       |
| 带内波动 Pass Band Ripple           |                                |     | 1.4 | dB       |
| 带外抑制 Rejection                  | >50dB@dc-10.9GHz<br>20.7-24GHz |     |     | dB       |
| 耐受功率 Power Handling             |                                |     | 15  | W        |
| 驻波 VSWR                         |                                |     | 1.8 | :1       |
| 阻抗 Impedance                    | 50                             |     |     | Ohms     |

### 环境和机械特性 Envriionmental And Physical Characteristics:

| 类型 Description            | 参数 Parameter | 单位 Units |
|---------------------------|--------------|----------|
| 操作温度 Operating Temerature | -40 To +70   | °C       |
| 接口 Connectors             | SMA Female   |          |
| 重量 Weight                 | /            | g        |

外形图 Outline Drawing:

Unit:mm

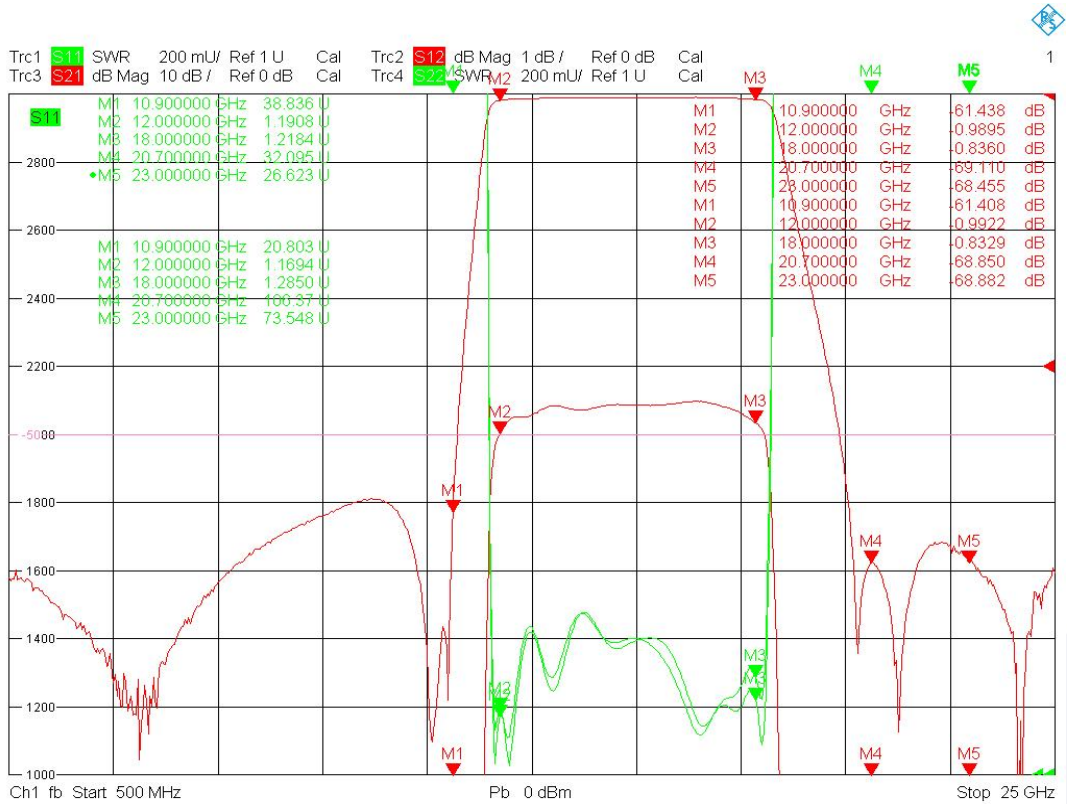


ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

| 标准型号 Base Number | 描述 Description                                                                                           | 版本号 Revision |
|------------------|----------------------------------------------------------------------------------------------------------|--------------|
| TLBF-12G-18G-X   | Coaxial Band-pass Filter, Passband frequency range: 12-18GHz, Passband Insertion Loss: 1.5dB, SMA Female | Rev.1.0      |

## 典型曲线 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.