

## Coaxial Band-pass Filter

### 2.993-3.003 GHz/SMA Female

Model: TLBF-2G998-10M-E4

TLBF-2G998-10M-E4 is a coaxial band-pass filter with a passband frequency from 2.993 to 3.003 GHz and a rejection frequencies from 2.948 GHz to 3.048 GHz. The maximum insertion loss of the filter is 2.0 dB and the typical rejection is 60 dB.

#### Features:

- Passband Frequency Range 2.993 to 3.003 GHz
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts

#### Applications:

- Instrumentations
- Radar Systems
- System Integrations

### 电气特性 Electrical Characteristics:

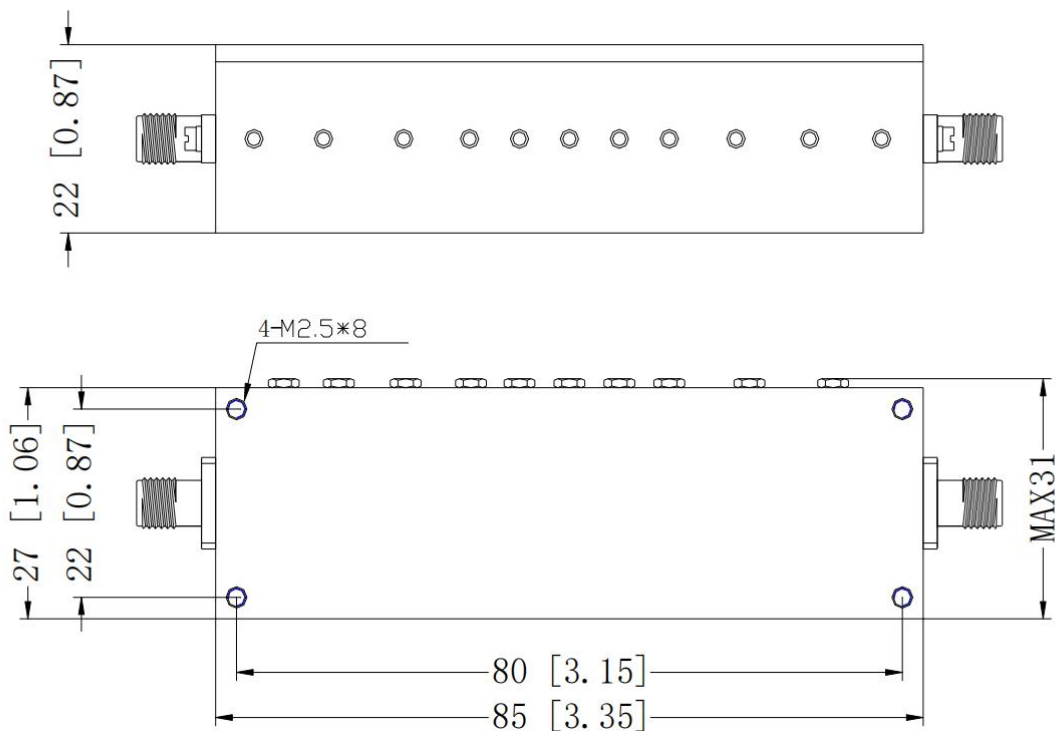
| 参数 Parameter                    | Min            | Typ | Max   | 单位 Units |
|---------------------------------|----------------|-----|-------|----------|
| 通带频率范围 Passband Frequency range | 2.993          |     | 3.003 | GHz      |
| 带宽 Band Width                   |                |     | 0.01  | GHz      |
| 通带插损 Passband Insertion Loss    |                | 1.8 | 2.0   | dB       |
| 带内波动 Pass Band Ripple           |                |     | 1.6   | dB       |
| 带外抑制 Rejection                  | >60dB@f0±50MHz |     |       |          |
| 耐受功率 Power Handling             |                |     | 15    | W        |
| 驻波 VSWR                         |                |     | 1.4   | :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   |          |

## 外形图 Outline Drawing:

Unit:mm

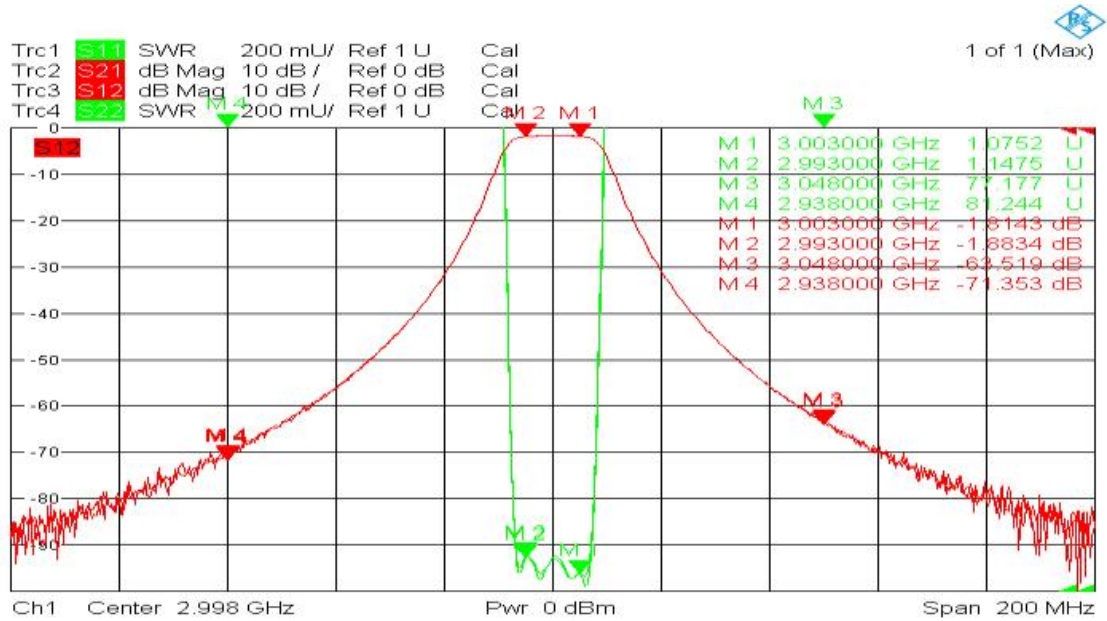


ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

## 订货信息 Ordering Information:

| 标准型号 Base Number  | 描述 Description                                                                                                 | 版本号 Revision |
|-------------------|----------------------------------------------------------------------------------------------------------------|--------------|
| TLBF-2G998-10M-E4 | Coaxial Band-pass Filter, Passband frequency range: 2.993-3.003GHz, Passband Insertion Loss: 2.0dB, 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.