

## Coaxial Band-pass Filter

### Center Frequency 1 GHz/SMA Female

**Model: TLBF-1G-20M-L**

TLBF-1G-20M-L is a coaxial band-pass filter with a passband center frequency at 1 GHz and a rejection frequencies at  $f_c \pm 130$  MHz. The maximum insertion loss of the filter is 4.6 dB and the minimum rejection is 40 dB.

#### Features:

- Passband Center Frequency 1 GHz
- High Rejection
- Steep Rejection Skirts

#### Applications:

- Instrumentations
- Radar Systems
- System Integrations

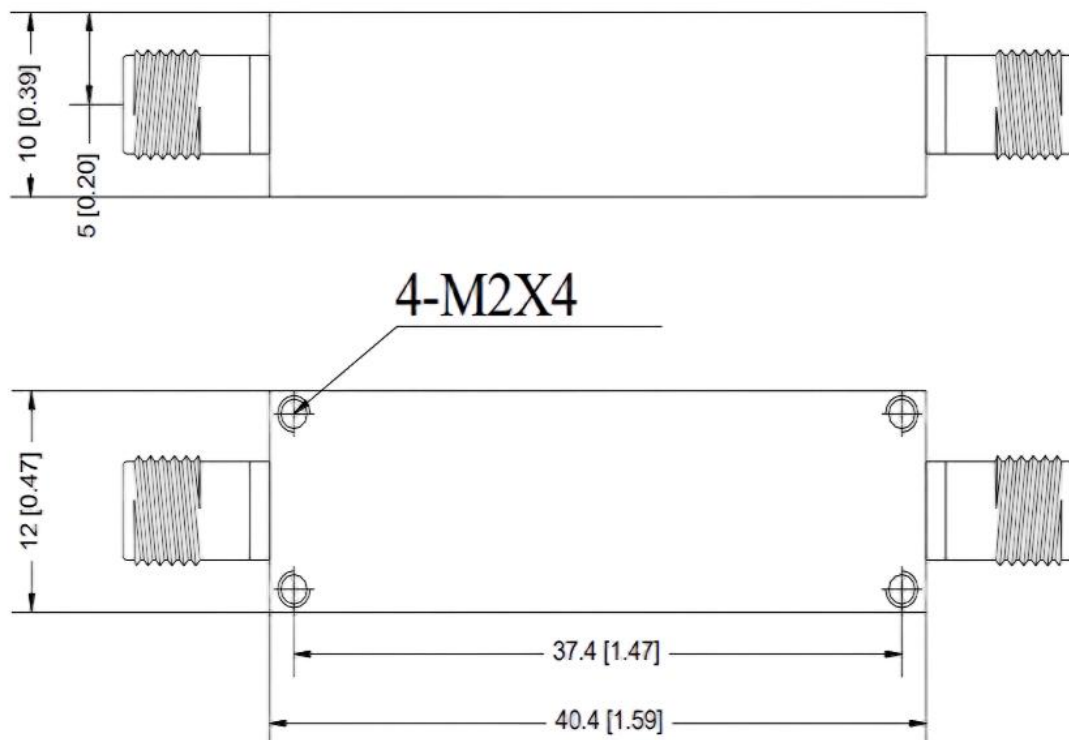
### 电气特性 Electrical Characteristics:

| 参数 Parameter                      | Min  | Typ | Max  | 单位 Units |
|-----------------------------------|------|-----|------|----------|
| 通带频率范围 Passband Frequency range   | 0.99 |     | 1.01 | GHz      |
| 带宽 Band Width                     |      |     | 20   | MHz      |
| 插损 Insertion Loss( $f_0$ )        |      |     | 4.6  | dB       |
| 带内纹波 Pass Band Ripple             |      |     | 3.6  | dB       |
| 驻波 VSWR                           |      |     | 1.6  | :1       |
| 带外抑制 Rejection@ $f_c \pm 130$ MHz | 40   |     |      | dB       |
| 耐受功率 Power Handling               |      |     | 2    | W        |
| 阻抗 Impedance                      | 50   |     |      | Ohms     |

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

| 类型 Description             | 参数 Parameter | 单位 Units |
|----------------------------|--------------|----------|
| 操作温度 Operating Temperature | -40 To +70   | °C       |
| 接口 Connectors              | SMA Female   |          |
| 尺寸 Size                    | 10*12*40.4   | mm       |

外形图 Outline Drawing: Unit:mm

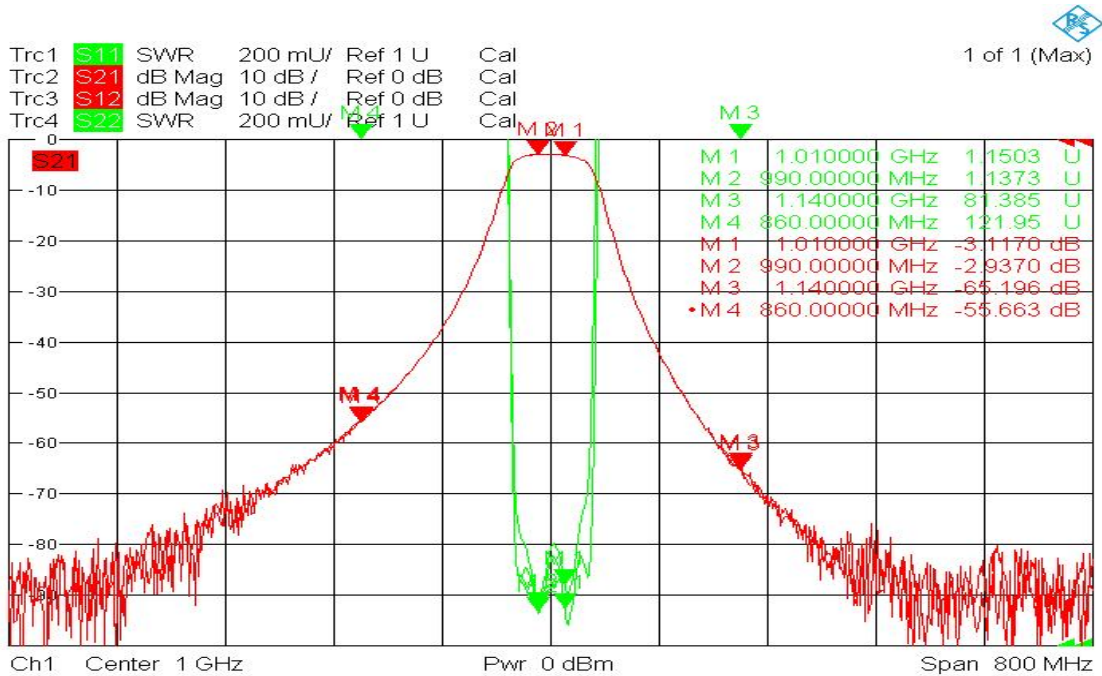


ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

| 标准型号 Base Number | 描述 Description                                                                                   | 版本号 Revision |
|------------------|--------------------------------------------------------------------------------------------------|--------------|
| TLBF-1G-20M-L    | Coaxial Band-pass Filter, Passband center frequency: 1GHz, Insertion Loss(f0): 4.6dB, 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.