

## Coaxial Low-pass Filter

### DC-12GHz/SMA Female

**Model: TLLF-DC-12G-X**

TLLF-DC-12G-X is a coaxial low-pass filter with a passband frequency from 0 to 12GHz and a rejection frequency from 13.8 to 18.5 GHz. The nominal insertion loss of the filter is 1.2 dB and the typical rejection is 50 dB.

#### Features:

- Passband Frequency Range DC to 12GHz
- Low Insertion Loss

#### Applications:

- Instrumentations
- Test Labs
- Sub-assemblies

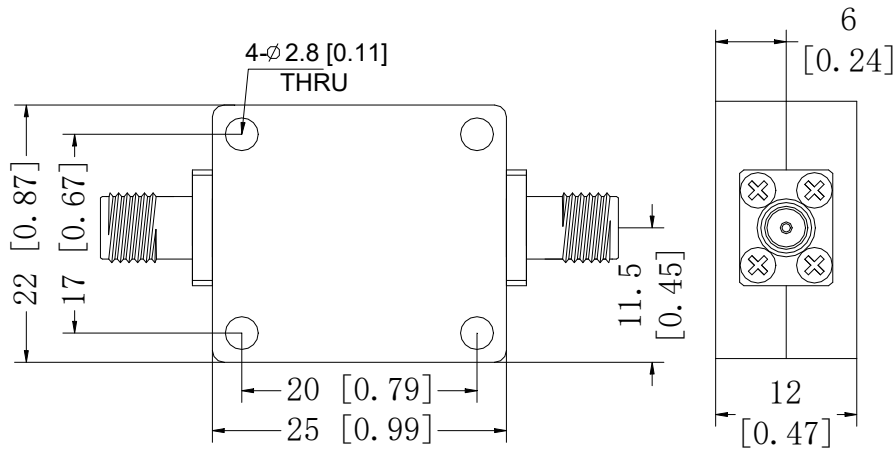
### 电气特性 Electrical Characteristics:

| 参数 Parameter                    | Min | Typ | Max | 单位 Units |
|---------------------------------|-----|-----|-----|----------|
| 通带频率范围 Passband Frequency range | DC  |     | 12  | GHz      |
| 通带插损 Passband Insertion Loss    |     |     | 1.2 | dB       |
| 带内纹波 Pass Band Ripple           |     |     | 1.0 | dB       |
| 带外抑制 Rejection@13.8-18.5GHz     | 50  |     |     | dB       |
| 耐受功率 Power Handling             |     |     | 15  | W        |
| 输入驻波 Input VSWR                 |     |     | 1.8 | :1       |
| 输出驻波 Output VSWR                |     |     | 1.8 | :1       |
| 阻抗 Impedance                    | 50  |     |     | Ohms     |

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

| 类型 Description             | 参数 Parameter | 单位 Units |
|----------------------------|--------------|----------|
| 操作温度 Operating Temperature | -40 To +70   | °C       |
| 存储温度 Storage Temperature   | -40 to +70   | °C       |
| 接口 Connectors              | SMA Female   |          |

外形图 Outline Drawing: Unit:mm

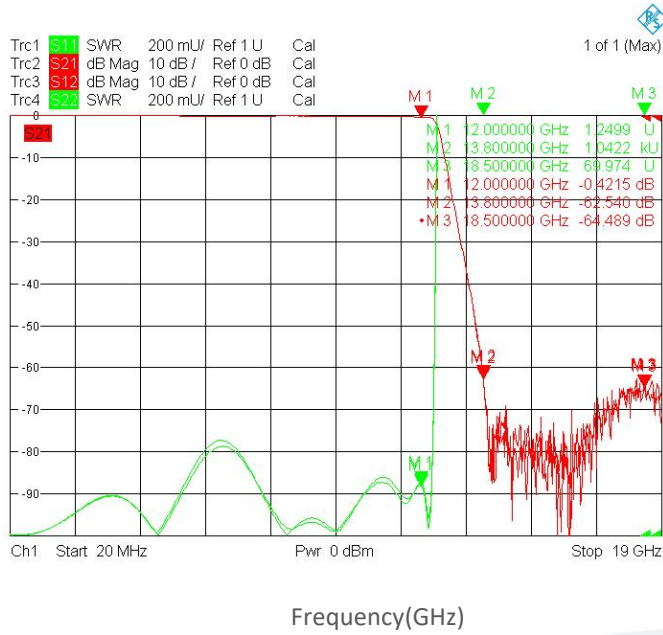


ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

| 标准型号 Base Number     | 描述 Description                                                                                          | 版本号 Revision |
|----------------------|---------------------------------------------------------------------------------------------------------|--------------|
| <b>TLLF-DC-12G-X</b> | Coaxial Low-pass Filter, Passband frequency range: DC-12GHz, Passband Insertion Loss: 1.2dB, 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.