

## Coaxial Low-pass Filter

### DC-10.5GHz/SMA Female

Model: TLLF-DC-10G5-X2

TLLF-DC-10G5-X2 is a coaxial low-pass filter with a passband frequency from 0 to 10.5GHz and a rejection frequency from 12 to 16 GHz. The nominal insertion loss of the filter is 1.5 dB and the typical rejection is 50 dB.

#### Features:

- Passband Frequency Range DC to 10.5GHz
- Low Insertion Loss

#### Applications:

- Instrumentations
- Test Labs
- Sub-assemblies

### 电气特性 Electrical Characteristics:

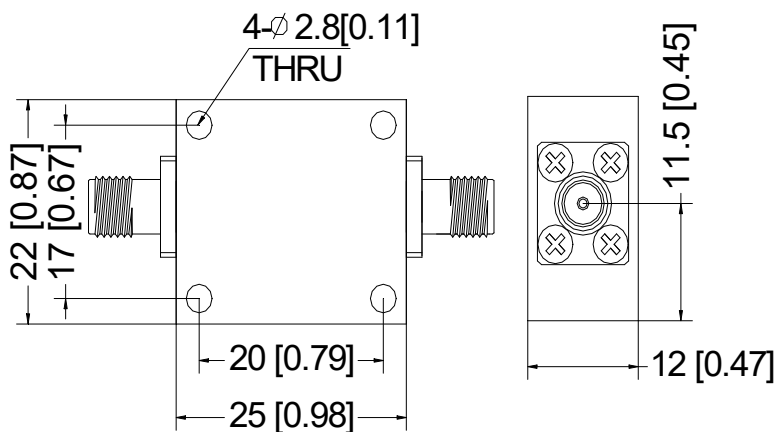
| 参数 Parameter                    | Min | Typ | Max  | 单位 Units |
|---------------------------------|-----|-----|------|----------|
| 通带频率范围 Passband Frequency range | DC  |     | 10.5 | GHz      |
| 通带插损 Passband Insertion Loss    |     |     | 1.5  | dB       |
| 带内纹波 Pass Band Ripple           |     |     | 1.2  | dB       |
| 带外抑制 Rejection@12-16GHz         | 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 Envirionmental 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 |
|------------------|---------------------------------------------------------------------------------------------------------|--------------|
| TLLF-DC-10.5G-X  | Coaxial Low-pass Filter, Passband frequency range: DC-11GHz, Passband Insertion Loss: 1.5dB, SMA Female | Rev.1.0      |