

## Coaxial Band-pass Filter

### 1.5-4.5 GHz/SMA Female

**Model: TLBF-1G5-4G5-X**

TLBF-1G5-4G5-X is a coaxial band-pass filter with a passband frequency from 1.5 to 4.5 GHz and a rejection frequencies from DC-0.8 GHz and 5.2-10 GHz. The maximum insertion loss of the filter is 1.5 dB and the typical rejection is 50 dB.

#### Features:

- Passband Frequency Range 1.5 to 4.5 GHz
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts

#### Applications:

- Instrumentations
- Radar Systems
- System Integrations

### 电气特性 Electrical Characteristics:

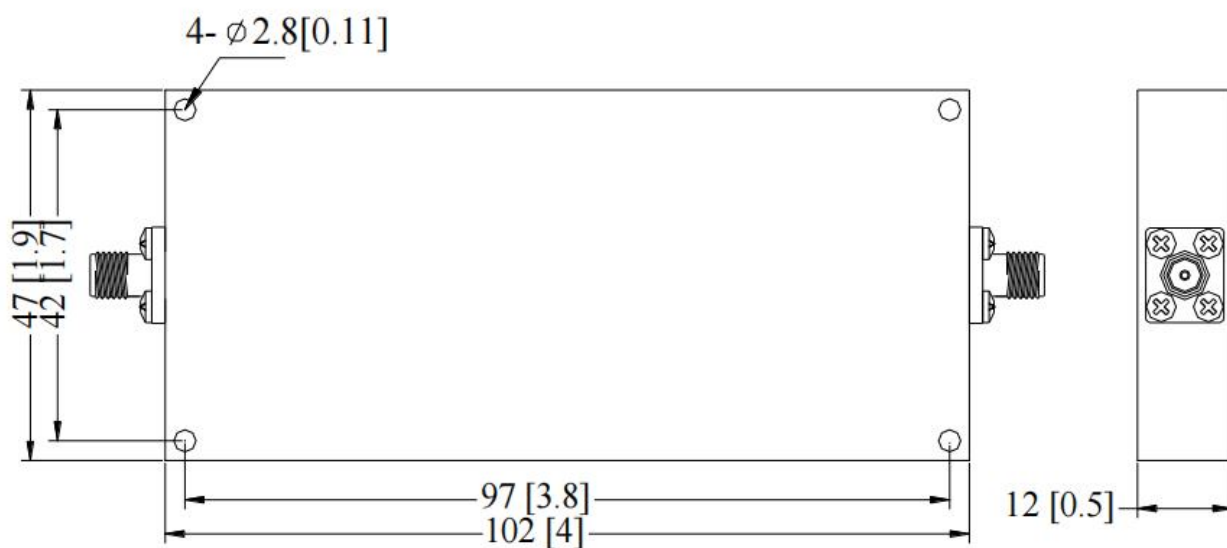
| 参数 Parameter                    | Min                                | Typ | Max | 单位 Units |
|---------------------------------|------------------------------------|-----|-----|----------|
| 通带频率范围 Passband Frequency range | 1.5                                |     | 4.5 | GHz      |
| 通带插损 Passband Insertion Loss    |                                    |     | 1.5 | dB       |
| 带内波动 Pass Band Ripple           |                                    |     | 1.0 | dB       |
| 带外抑制 Rejection                  | >50dB@dc-0.8Ghz<br>>50dB@5.2-10Ghz |     |     |          |
| 耐受功率 Power Handling             |                                    |     | 10  | 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   |          |

## 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-1G5-4G5-X   | Coaxial Band-pass Filter, Passband frequency range: 1.5-4.5GHz, Passband Insertion Loss: 1.5dB, SMA Female | Rev.1.0      |