

## Coaxial Band-pass Filter

### 8-12 GHz/SMA Female

Model: TLBF-10G-4G-E2

TLBF-10G-4G-E2 is a coaxial band-pass filter with a passband frequency from 8 to 12 GHz and a rejection frequencies from 6 GHz to 14 GHz. The maximum insertion loss of the filter is 1.0 dB and the typical rejection is 50 dB.

#### Features:

- Passband Frequency Range 8 to 12 GHz
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts

#### Applications:

- Instrumentations
- Radar Systems
- System Integrations

### 电气特性 Electrical Characteristics:

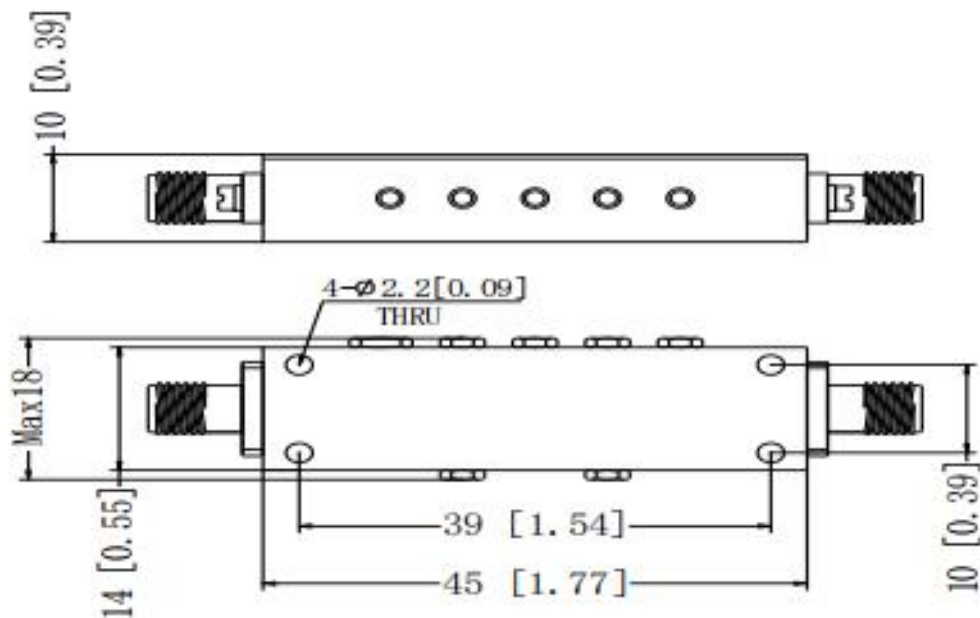
| 参数 Parameter                    | Min             | Typ | Max | 单位 Units |
|---------------------------------|-----------------|-----|-----|----------|
| 通带频率范围 Passband Frequency range | 8               |     | 12  | GHz      |
| 带宽 Band Width                   |                 |     | 4   | GHz      |
| 通带插损 Passband Insertion Loss    |                 |     | 1.0 | dB       |
| 带内波动 Pass Band Ripple           |                 |     | 1.0 | dB       |
| 带外抑制 Rejection                  | >50@f0(中心)±4Ghz |     |     | dB       |
| 耐受功率 Power Handling             |                 |     | 20  | W        |
| 驻波 VSWR                         |                 |     | 1.6 | :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-10G-4G-E2   | Coaxial Band-pass Filter, Passband frequency range: 8-12GHz, Passband Insertion Loss: 1.0dB, SMA Female | Rev.1.0      |