

## Coaxial Band-pass Filter

### 9.5-10.5 GHz/SMA Female

**Model: TBF-10000-1000-C5**

TBF-10000-1000-C5 is a coaxial band-pass filter with a passband frequency from 9.5 to 10.5 GHz and a rejection frequencies from 7.5 GHz to 12.5 GHz. The maximum insertion loss of the filter is 1.0 dB and the typical rejection is 45 dB.

#### Features:

- Passband Frequency Range 9.5 to 10.5 GHz
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts

#### Applications:

- Instrumentations
- Radar Systems
- System Integrations

### 电气特性 Electrical Characteristics:

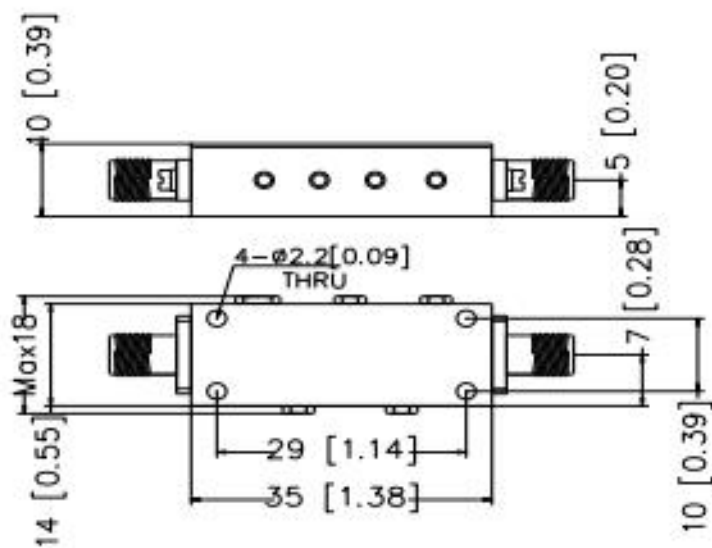
| 参数 Parameter                    | Min                 | Typ | Max  | 单位 Units |
|---------------------------------|---------------------|-----|------|----------|
| 通带频率范围 Passband Frequency range | 9.5                 |     | 10.5 | GHz      |
| 带宽 Band Width                   |                     |     | 1    | 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                  | >45dB@f0(中心)±2.5Ghz |     |      |          |
| 耐受功率 Power Handling             |                     |     | 20   | W        |
| 驻波 VSWR                         |                     |     | 1.5  | :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

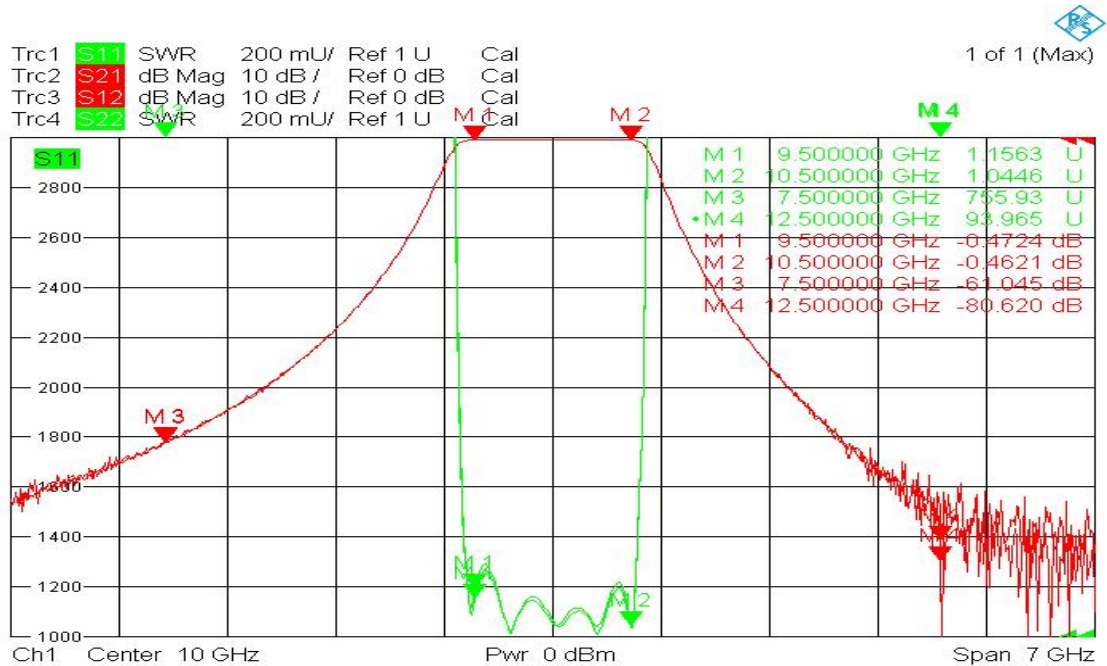


ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

## 订货信息 Ordering Information:

| 标准型号 Base Number  | 描述 Description                                                                                              | 版本号 Revision |
|-------------------|-------------------------------------------------------------------------------------------------------------|--------------|
| TBF-10000-1000-C5 | Coaxial Band-pass Filter, Passband frequency range: 9.5-10.5GHz, Passband Insertion Loss: 1.0dB, 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.