

## Coaxial Band-pass Filter

7.35-7.65 GHz/SMA Female/SMA Male

Model: TLBF-7G5-300M-E

TLBF-7G5-300M-E is a coaxial band-pass filter with a passband frequency from 7.35 to 7.65 GHz and a rejection frequencies @ $\leq 6.35$  GHz and  $\geq 8.65$  GHz. The maximum insertion loss of the filter is 1.2 dB and the typical rejection is 70 dB.

### Features:

- Passband Frequency Range 7.35 to 7.65 GHz
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts
- Field Replaceable RF Connectors

### Applications:

- Instrumentations
- Radar Systems
- System Integrations

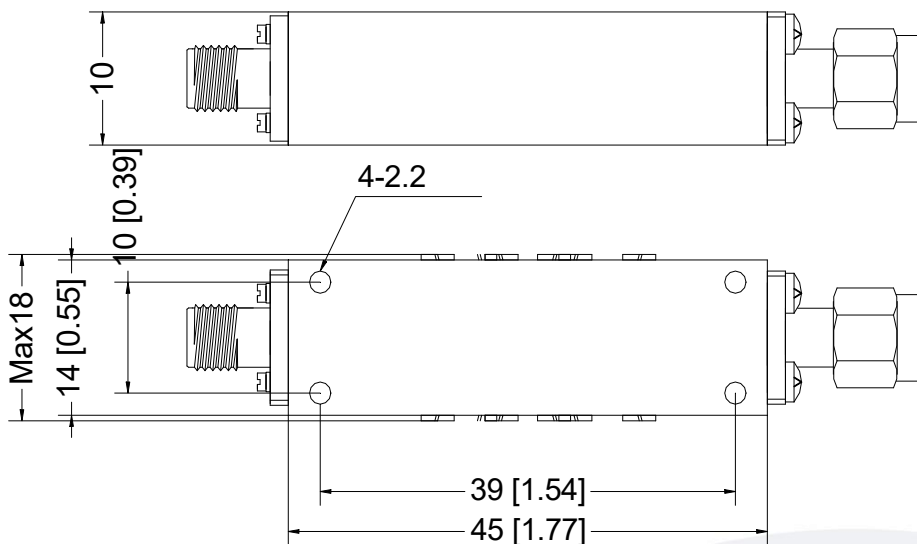
## 电气特性 Electrical Characteristics:

| 参数 Parameter                    | Min                 | Typ | Max  | 单位 Units |
|---------------------------------|---------------------|-----|------|----------|
| 通带频率范围 Passband Frequency range | 7.35                |     | 7.65 | GHz      |
| 带宽 Band Width                   |                     |     | 0.3  | GHz      |
| 通带插损 Passband Insertion Loss    |                     |     | 1.2  | dB       |
| 带内波动 Pass Band Ripple           | 0.4                 |     |      | dB       |
| 群时延 Group Delay Flatness        | 1.3                 |     |      | NS       |
| 带外抑制 Rejection                  | >70dB@fo $\pm$ 1GHz |     |      | dB       |
| 耐受功率 Power Handling             |                     |     | 15   | W        |
| 驻波 VSWR                         |                     |     | 1.3  | :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 Temperature | -40 To +70          | °C       |
| 接口 Connectors              | SMA Female/SMA Male |          |
| 重量 Weight                  | /                   | g        |

外形图 Outline Drawing: Unit:mm



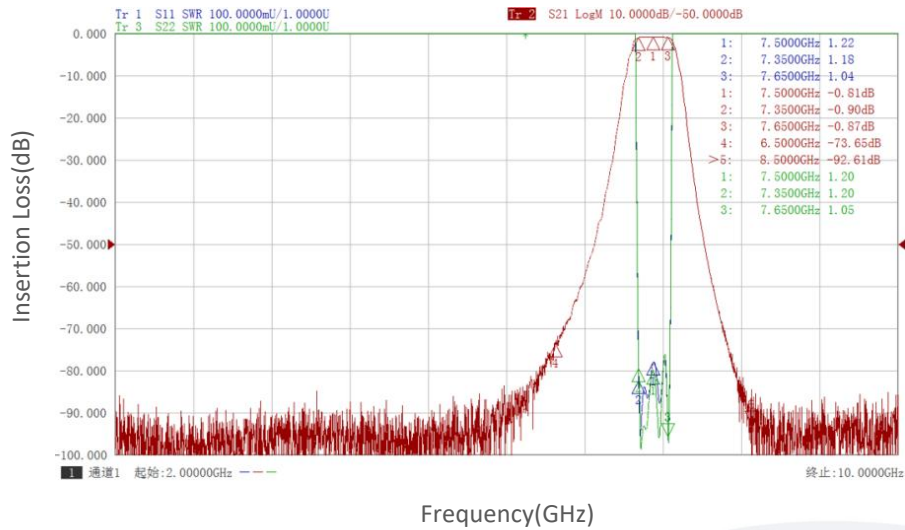
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

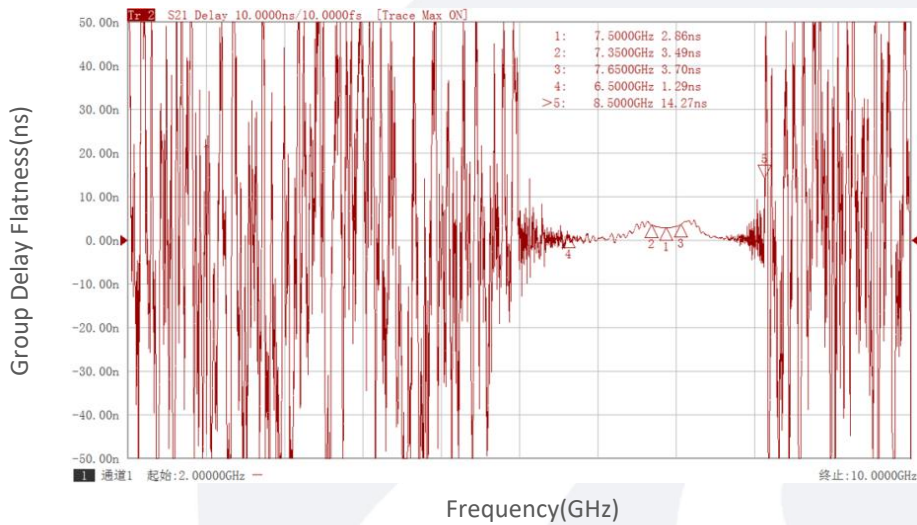
| 标准型号 Base Number | 描述 Description                                                                                                        | 版本号 Revision |
|------------------|-----------------------------------------------------------------------------------------------------------------------|--------------|
| TLBF-7G5-300M-E  | Coaxial Band-pass Filter, Passband frequency range: 7.35-7.65GHz, Passband Insertion Loss: 1.2dB, SMA Female/SMA Male | Rev.1.0      |

## 典型曲线 Typical Performance Data:

### Insertion Loss vs Frequency



### Group Delay Flatness vs Frequency



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.