

## Coaxial Band-pass Filter

5.85-6.15 GHz/SMA Female/SMA Male

Model: TLBF-6G-300M-E

TLBF-6G-300M-E is a coaxial band-pass filter with a passband frequency from 5.85 to 6.15 GHz and a rejection frequencies @ $\leq 4.85$  GHz and  $\geq 7.15$  GHz. The maximum insertion loss of the filter is 1.2 dB and the typical rejection is 70 dB.

### Features:

- Passband Frequency Range 5.85 to 6.15 GHz
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts
- Field Replaceable RF Connectors

### Applications:

- Instrumentations
- Radar Systems
- System Integrations

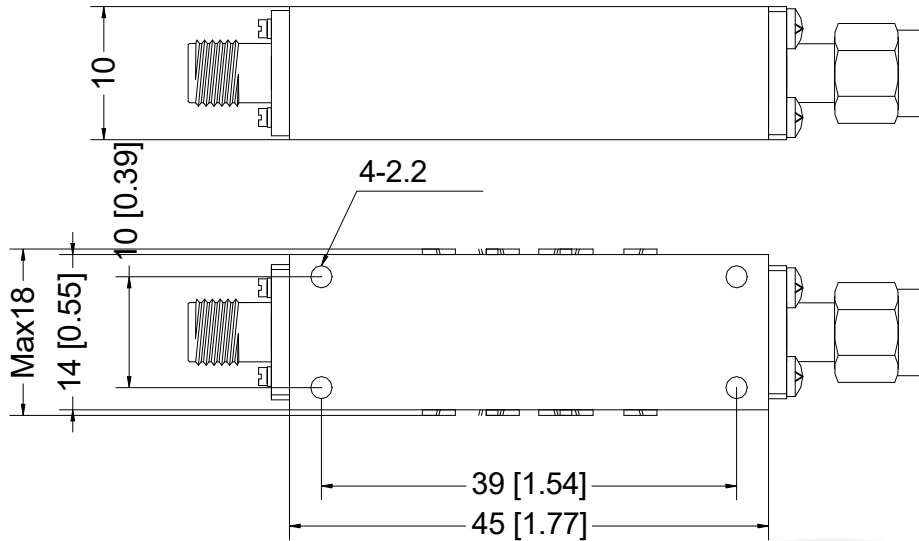
### 电气特性 Electrical Characteristics:

| 参数 Parameter                    | Min  | Typ                 | Max  | 单位 Units |
|---------------------------------|------|---------------------|------|----------|
| 通带频率范围 Passband Frequency range | 5.85 |                     | 6.15 | 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 Environmental 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; Tolerance $\pm$ 0.1mm



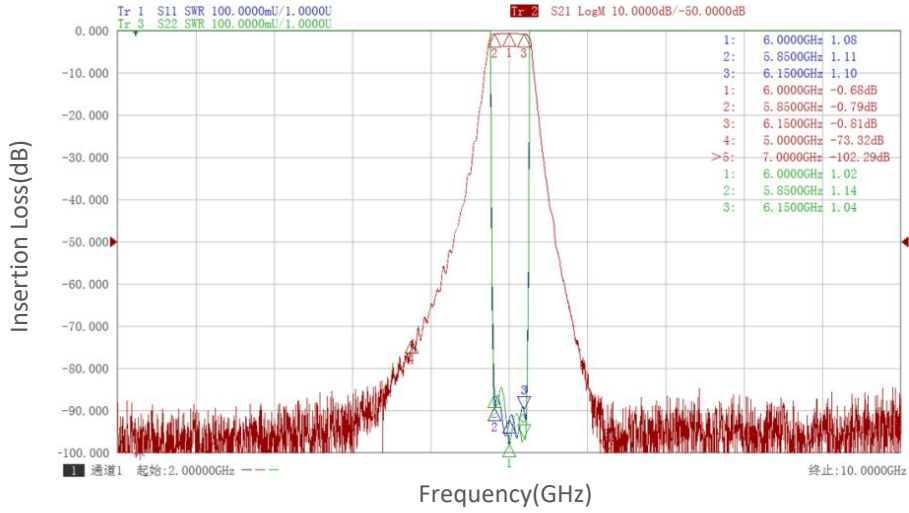
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

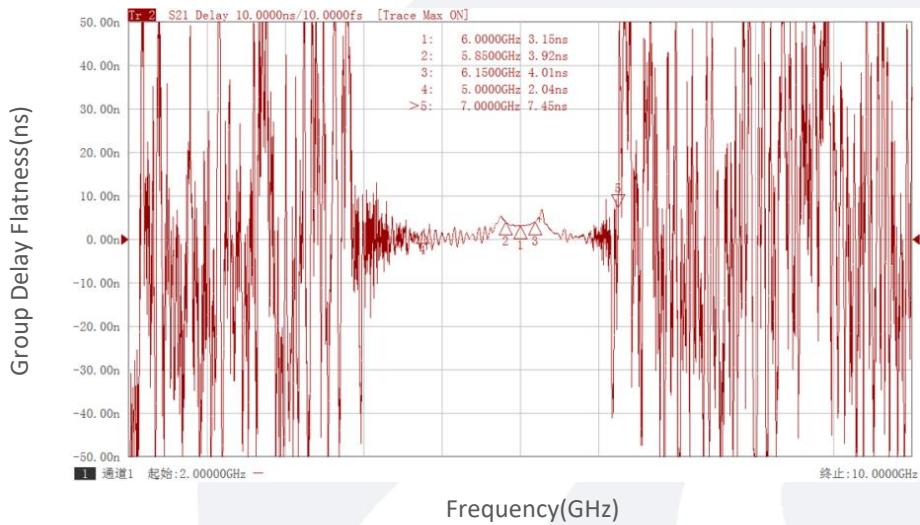
| 标准型号 Base Number | 描述 Description                                                                                                        | 版本号 Revision |
|------------------|-----------------------------------------------------------------------------------------------------------------------|--------------|
| TLBF-6G-300M-E   | Coaxial Band-pass Filter, Passband frequency range: 5.85-6.15GHz, 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.