

## Coaxial Band-pass Filter

### 4.45-5.05 GHz/SMA Female/SMA Male

Model: TLBF-4G75-600M-E

TLBF-4G75-600M-E is a coaxial band-pass filter with a passband frequency from 4.45 to 5.05 GHz and a rejection frequencies from DC-3.75 GHz and 5.55 GHz. The maximum insertion loss of the filter is 1.2 dB and the typical rejection is 70 dB.

#### Features:

- Passband Frequency Range 4.45 to 5.05 GHz
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts
- Field Replaceable RF Connectors

#### Applications:

- Instrumentations
- Radar Systems
- System Integrations

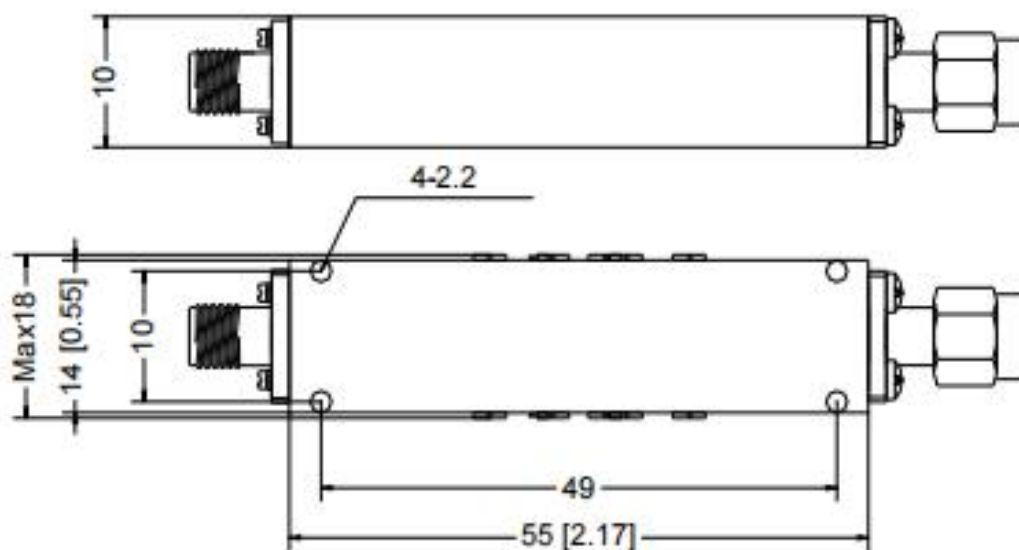
### 电气特性 Electrical Characteristics:

| 参数 Parameter                    | Min                         | Typ | Max  | 单位 Units |
|---------------------------------|-----------------------------|-----|------|----------|
| 通带频率范围 Passband Frequency range | 4.45                        |     | 5.05 | GHz      |
| 带宽 Band Width                   |                             |     | 0.6  | GHz      |
| 通带插损 Passband Insertion Loss    |                             |     | 1.2  | dB       |
| 带内波导 Pass band Ripple           | 0.4                         |     |      | dB       |
| 群时延 Group Delay Flatness        | 1.3                         |     |      | NS       |
| 带外抑制 Rejection                  | >70dB@DC-3.75Ghz<br>5.55Ghz |     |      |          |
| 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 Temerature | -40 To +70          | °C       |
| 接口 Connectors             | SMA Female/SMA Male |          |

外形图 Outline Drawing: Unit:mm

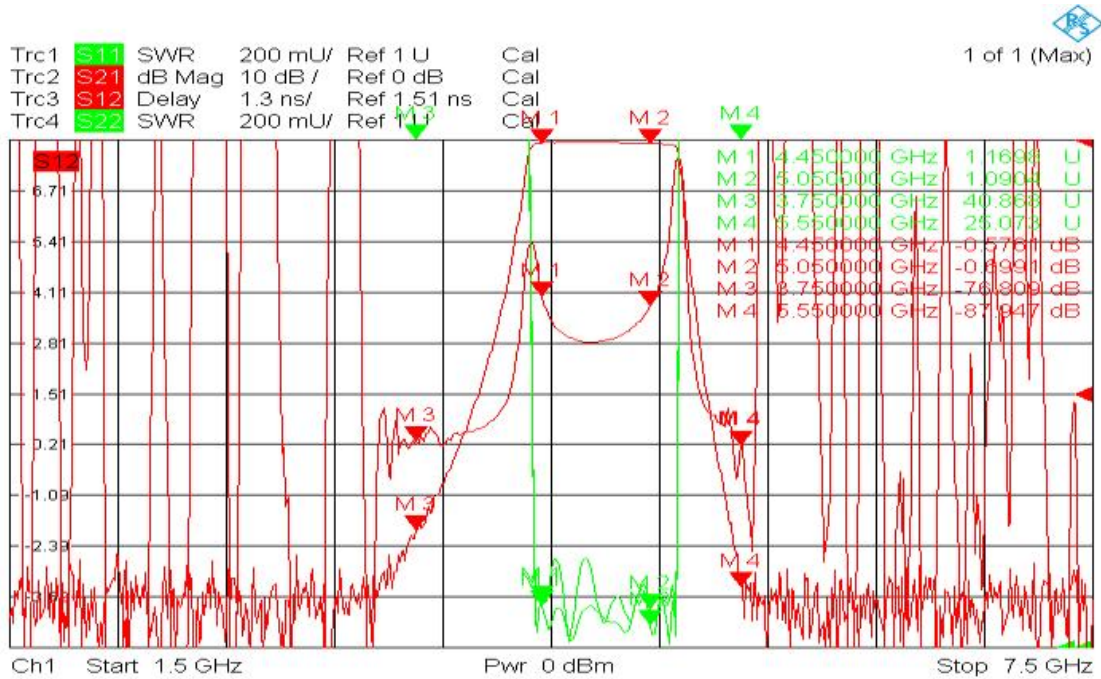


ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

| 标准型号 Base Number | 描述 Description                                                                                                        | 版本号 Revision |
|------------------|-----------------------------------------------------------------------------------------------------------------------|--------------|
| TLBF-4G75-600M-E | Coaxial Band-pass Filter, Passband frequency range: 4.45-5.05GHz, Passband Insertion Loss: 1.2dB, SMA Female/SMA Male | 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.