

## Coaxial Band-pass Filter

### 6.2-7.8 GHz/SMA Female

Model: TLBF-6G2-7G8-E

TLBF-6G2-7G8-E is a coaxial band-pass filter with a passband frequency from 6.2 to 7.8 GHz and a rejection frequencies from DC-5.7 GHz and 8.3-12GHz. The maximum insertion loss of the filter is 1.0 dB and the minimum rejection is 40 dB.

#### Features:

- Passband Frequency Range 6.2 to 7.8 GHz
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts
- Field Replaceable RF Connectors

#### Applications:

- Instrumentations
- Radar Systems
- System Integrations

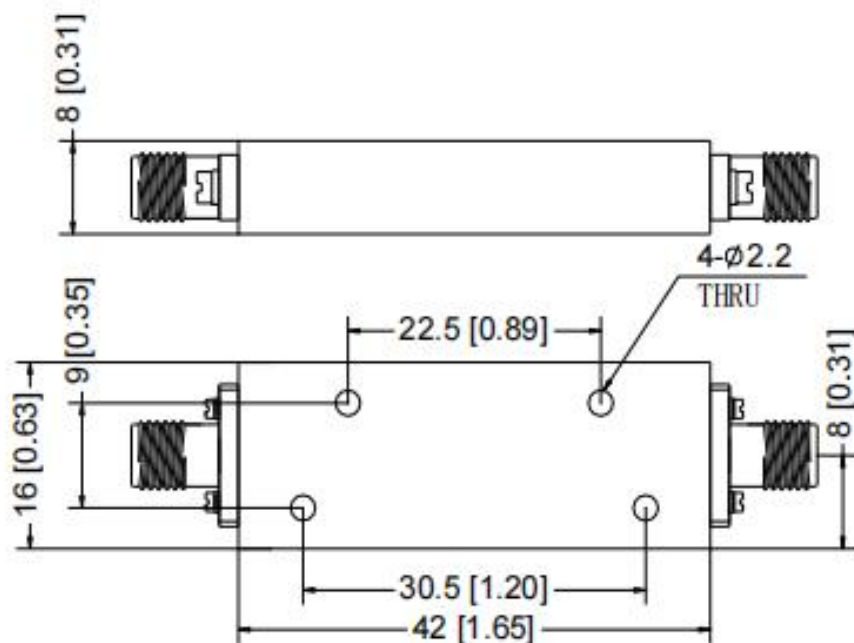
### 电气特性 Electrical Characteristics:

| 参数 Parameter                    | Min                          | Typ | Max | 单位 Units |
|---------------------------------|------------------------------|-----|-----|----------|
| 通带频率范围 Passband Frequency range | 6.2                          |     | 7.8 | GHz      |
| 带宽 Band Width                   |                              |     | 1.6 | GHz      |
| 通带插损 Passband Insertion Loss    |                              |     | 1.0 | dB       |
| 带内波动 Pass Band Ripple           | 0.9                          |     |     | dB       |
| 带外抑制 Rejection                  | ≥40dB@DC-5.7GHz<br>8.3-12GHz |     |     | dB       |
| 耐受功率 Power Handling             |                              |     | 10  | W        |
| 驻波 VSWR                         |                              |     | 1.6 | :1       |
| 阻抗 Impedance                    | 50                           |     |     | Ohms     |

### 环境和机械特性 Envirionmental And Physical Characteristics:

| 类型 Description             | 参数 Parameter                   | 单位 Units |
|----------------------------|--------------------------------|----------|
| 操作温度 Operating Temperature | -40 To +70                     | °C       |
| 材质 Material                | Gold-plated oxygen-free copper |          |
| 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-6G2-7G8-E   | Coaxial Band-pass Filter, Passband frequency range: 6.2-7.8GHz, Passband Insertion Loss: 1.0dB, SMA Female | Rev.1.0      |