

## Coaxial Band-pass Filter

5.05-6.05 GHz/SMA Female

Model: TLBF-5G55-1G-E2

TLBF-5G55-1G-E2 is a coaxial band-pass filter with a passband frequency from 5.05 to 6.05 GHz and a rejection frequencies from 4345 MHz to 4505 MHz. The maximum insertion loss of the filter is 1.5 dB and the typical rejection is 90 dB.

### Features:

- Passband Frequency Range 5.05 to 6.05 GHz
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts
- Field Replaceable RF Connectors

### Applications:

- Instrumentations
- Radar Systems
- System Integrations

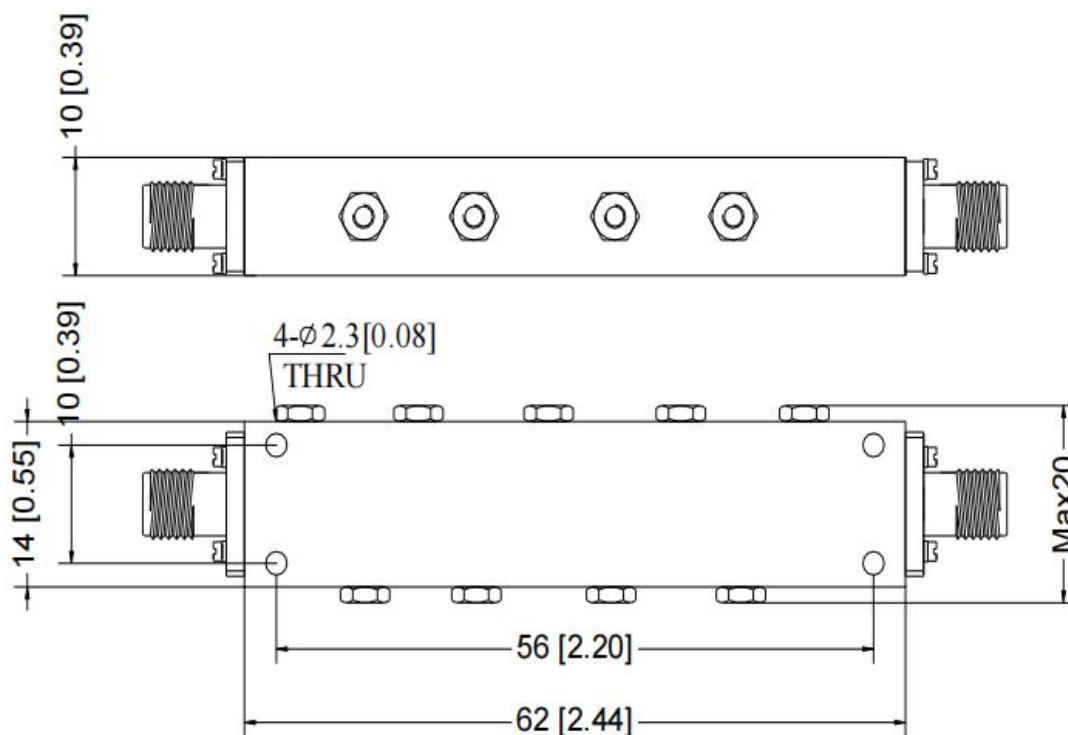
## 电气特性 Electrical Characteristics:

| 参数 Parameter                    | Min                                                                                                                                                                                                                      | Typ | Max  | 单位 Units |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|----------|
| 通带频率范围 Passband Frequency range | 5.05                                                                                                                                                                                                                     |     | 6.05 | GHz      |
| 带宽 Band Width                   |                                                                                                                                                                                                                          |     | 1    | GHz      |
| 通带插损 Passband Insertion Loss    |                                                                                                                                                                                                                          |     | 1.5  | dB       |
| 带内波动 Pass Band Ripple           | 1.2                                                                                                                                                                                                                      |     |      | dB       |
| 带外抑制 Rejection                  | ≥30dB@4800MHz<br>≥30dB@6285MHz<br>≥30dB@7885MHz<br>≥40db@7027.5Mhz<br>≥30dB@7372.5MHz<br>≥30dB@8115MHz<br>≥30dB@6515MHz<br>≥20dB@4627.5MHz<br>≥20dB@7072.5MHz<br>≥105dB@4455MHz<br>≥90dB@4345-4505MHz<br>≥30dB@4972.5MHz |     |      | dB       |
| 耐受功率 Power Handling             |                                                                                                                                                                                                                          |     | 15   | W        |
| 驻波 VSWR                         |                                                                                                                                                                                                                          |     | 1.6  | :1       |
| 阻抗 Impedance                    | 50                                                                                                                                                                                                                       |     |      | Ohms     |

## 环境和机械特性 Envriomental 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   |          |

## 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-5G55-1G-E2  | Coaxial Band-pass Filter, Passband frequency range: 5.05-6.05GHz, Passband Insertion Loss: 1.5dB, SMA Female | Rev.1.0      |