

## Coaxial Band-pass Filter

### 2.55-3.05GHz/ SMA Female

### Model: TLBF-2G8-500M-E1

TLBF-2G8-500M-E1 is a coaxial band-pass filter with a passband frequency from 2.55 to 3.05GHz and a rejection frequencies from 0 to 1.6GHz and 4.54 to 5.54GHz. The nominal insertion loss of the filter is 0.8dB and the typical rejection is 50 dB.

#### Features:

- Passband Frequency Range 2.55 to 3.05GHz
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts

#### 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 | 2.55                             |     | 3.05 | GHz      |
| 通带插损 Passband Insertion Loss    |                                  |     | 0.8  | dB       |
| 带内纹波 Pass Band Ripple           |                                  |     | 0.7  | dB       |
| 带外抑制 Rejection                  | ≥50dB@DC-1600MHz<br>4540-5540MHz |     |      | dB       |
| 耐受功率 Power Handling             |                                  |     | 15   | W        |
| 输入驻波 Input VSWR                 |                                  |     | 1.6  | :1       |
| 输出驻波 Output 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   | ℃        |
| 存储温度 Storage Temperature   | -40 to +70   | ℃        |
| 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-2G8-500M-E1 | Coaxial Band-pass Filter, Passband frequency range: 2.55 to 3.05GHz , Passband Insertion Loss: 0.8dB, SMA Female | Rev.1.0      |