泰莱微波
Talent Microwave

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# D-Band,2-Way Waveguide Power Divider

## 110-170GHz/1.5dB,Insertion Loss/17dB,Isolation  Model: TLPD-110170-2-06

The TLPD-110170-2-06 is a full band WR-6.5, 2-way power divider that operates from 110 to 170 GHz. The power divider offers a typical insertion loss of 1.5dB and typical isolation of 17 dB. All ports are well-balanced and in-phase for power dividing or combining applications across the band. The power divider is configured as aninlinepackage with WR-6.5 waveguides and UG-387/U-M compatible anti-cocking flanges at all ports .

### Features:

- Frequency range: 110-170GHz
- Low Insertion Loss
- High Isolation
- Compact Package

### Applications:

- Test Lab
- Sub-assemblies
- Test Instrumentations
- Twist Compatible

### 电气特性 Electrical Characteristics:

| 参数 Parameter | Min | Typ | Max | 单位 Units |
|---|---|---|---|---|
| 频率范围 Frequency range | 110 | | 170 | GHz |
| 插损 Insertion Loss | | 1.5 | | dB |
| 幅度平衡 Amplitude Balance | | ±0.6 | | dB |
| 端口隔离 Port Isolation | | 17 | | dB |
| 输入回波损耗 Input Return Loss | | -17 | | dB |
| 输出回波损耗 Output Return Loss | | -17 | | dB |

### 机械特性 Mechanical Specifications:

| 参数 Parameter | 指标 Value | 单位 Units |
|---|---|---|
| 输入/输出接口 Input /Output Connector | WR-6.5/UG-387/U | |
| 尺寸 Size | 20*25*40 | mm |
| 材质 Material | Brass | |
| 表面处理 Finish | Gold plated | |

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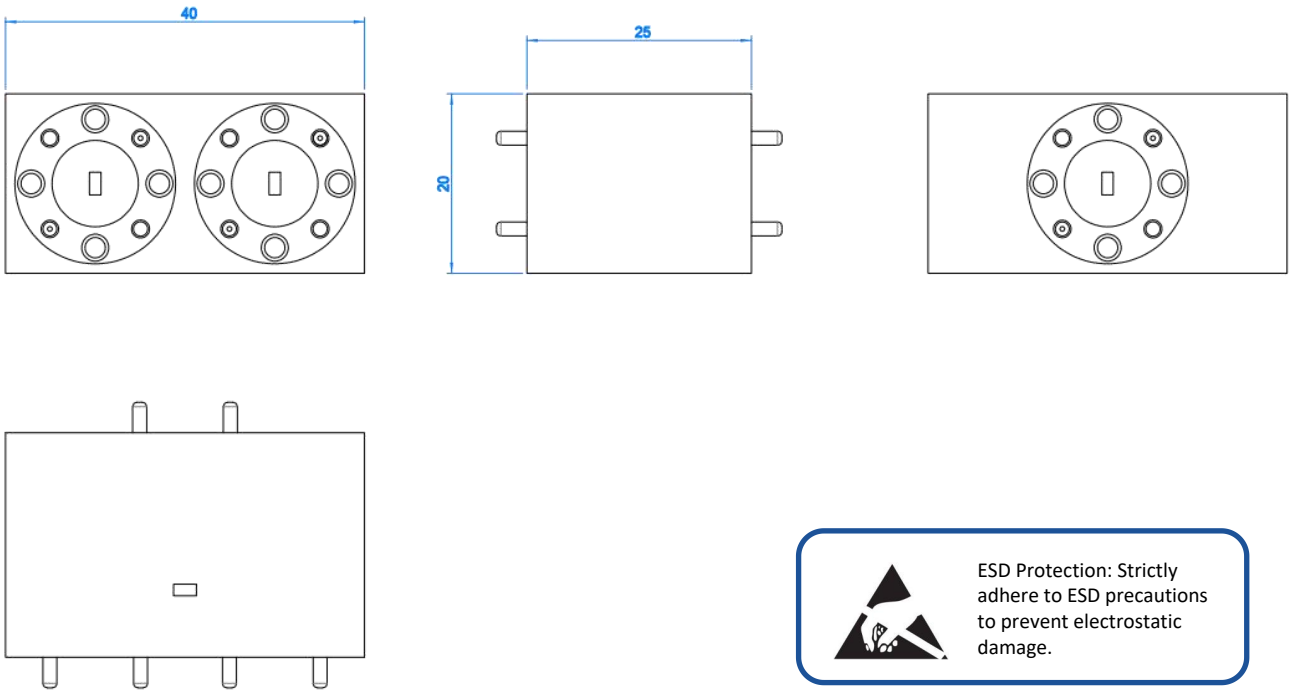
## 外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm




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

## 温度环境 Environmental Conditions:

| 参数 Parameter | Min | Typ | Max | 单位 Units |
|---|---|---|---|---|
| 操作温度 Operating Temperature | -45 | | +85 | ℃ |
| 存储温度 Non-operating Temperature | -55 | | +125 | ℃ |
| 相对湿度 Relative humidity | | 95 | | % |
| 海拔 Altitude | 10,000 | | | feet |
| 震动 Shock / Vibration(MIL-STD-810F) | 25g rms (15 degree 2KHz) endurance, 1 hour per axis | | | |
| 冲击 Shock(non operating) | 20G for 11msc half sin wave,3 axis both directions | | | |

## 订货信息 Ordering Information:

| 标准型号 Base Number | 描述 Description | 版本号 Revision |
|---|---|---|
| TLPD-110170-2-06 | 2-Way waveguide power divider, 110-170GHz, Insertion loss: 1.5 dB, Port Isolation: 17dB | Rev.1.0 |