Suzhou Talent Microwave,Inc
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# V-Band,2-Way Waveguide Power Divider

## 50-75GHz/0.5dB,Insertion Loss/180°

## Model: TLPD-050075-2-15-180

The TLPD-050075-2-15-180 is a full band WR-15, 2-way power divider that operates from 50 to 75 GHz. The power divider offers a typical insertion loss of 0.5 dB. Across the full band, all ports feature excellent amplitude balance and support out-of-phase distribution, making them suitable for power dividing or combining applications. The power divider is configured as an inline package with WR-15 waveguides and UG-385/U-M compatible anti-cocking flanges at all ports.

### Features:

- Frequency range: 50-75GHz
- Low Insertion Loss
- High Isolation
- Compact Package

### Applications:

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

### Electrical Characteristics:

| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Frequency range | 50 | | 75 | GHz |
| Insertion Loss | | 0.5 | | dB |
| Amplitude Balance | | ±0.3 | | dB |
| Port Isolation | | 20 | | dB |
| Return Loss | | -20 | | dB |

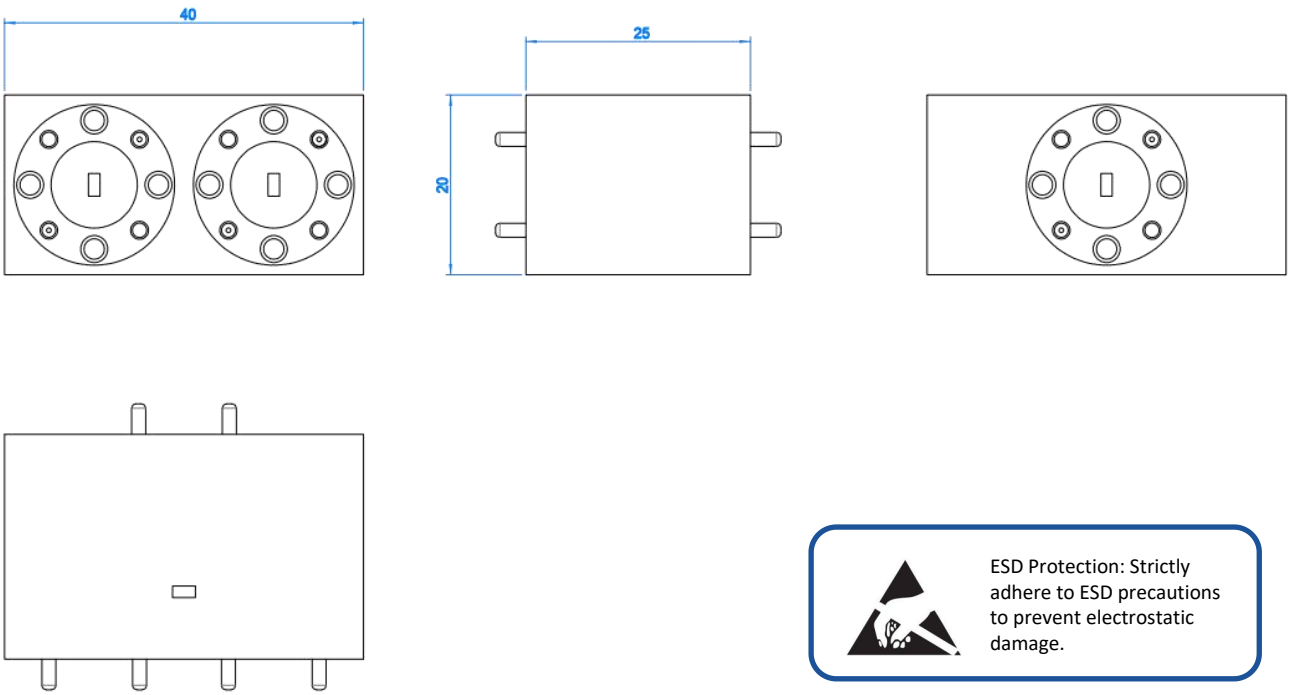
### Mechanical Specifications:

| Parameter | Value | Units |
|---|---|---|
| Input /Output Connector | WR-15/UG-385/U | |
| Size | 20*25*40 | mm |
| Material | Brass | |
| Finish | Gold plated | |

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## Outline Drawing:

Unit:mm; Tolerance:±0.1mm




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

## Environmental Conditions:

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

## Ordering Information:

| Base Number | Description | Revision |
|---|---|---|
| TLPD-050075-2-15-180 | 2-Way waveguide power divider, 50-75GHz, out-of-phase | Rev.1.0 |