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

## 60-90GHz/0.5dB,Insertion Loss/17dB,Isolation Model: TLPD-060090-2-12

The TLPD-060090-2-12 is a full band WR-12, 2-way power divider that operates from 60 to 90 GHz. The power divider offers a typical insertion loss of 0.5dB 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-12 waveguides and UG-387/U-M compatible anti-cocking flanges at all ports .

## Features:

- Frequency range: 60-90GHz
- 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 | 60 | | 90 | GHz |
| Insertion Loss | | 0.5 | | dB |
| Amplitude Balance | | ±0.3 | | dB |
| Port Isolation | | 17 | | dB |
| Input Return Loss | | -17 | | dB |
| Output Return Loss | | -17 | | dB |

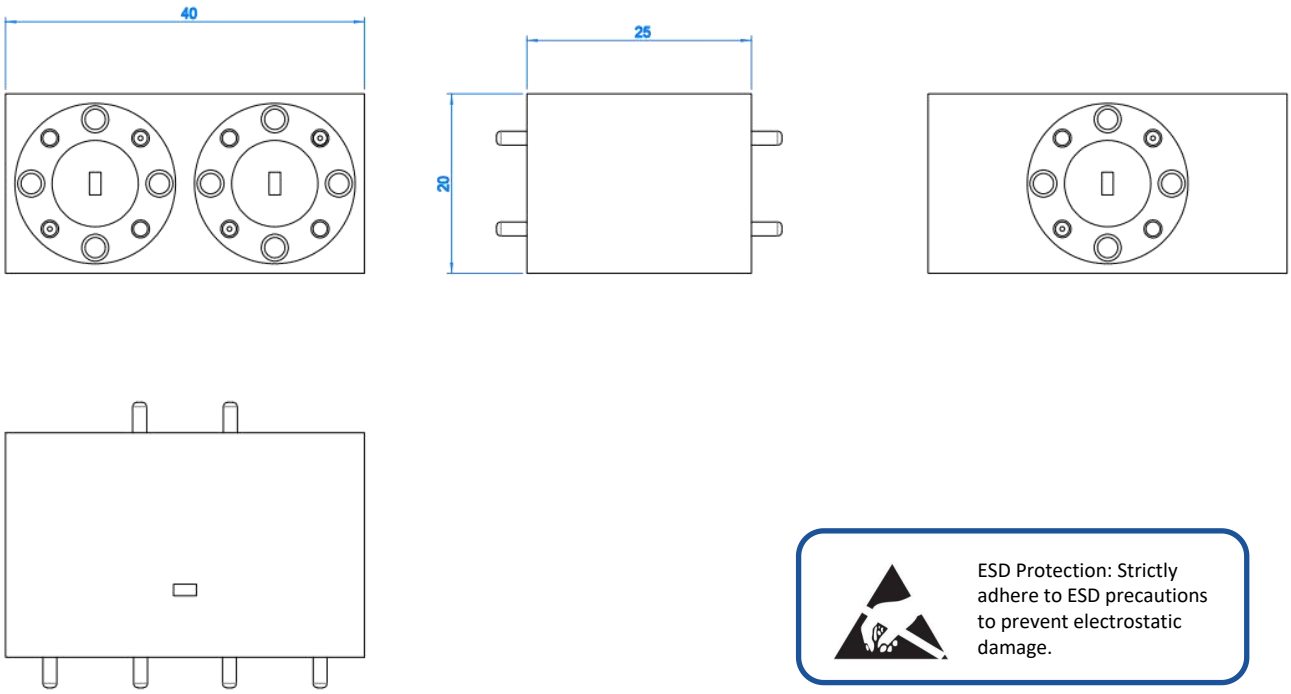
## Mechanical Specifications:

| Parameter | Value | Units |
|---|---|---|
| Input /Output Connector | WR-12/UG-387/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-060090-2-12 | 2-Way waveguide power divider, 60-90GHz, Insertion loss: 0.5 dB, Port Isolation: 17dB | Rev.1.0 |