

## J-Band,2-Way Waveguide Power Divider

### 220-330GHz/2.5dB,Insertion Loss/17dB,Isolation

**Model: TLPD-220330-2-3.4**

The TLPD-220330-2-3.4 is a full band WR-3.4, 2-way power divider that operates from 220 to 330 GHz. The power divider offers a typical insertion loss of 2.5dB 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 an inline package with WR-3.4 waveguides and UG-387/U-M compatible anti-cocking flanges at all ports .

### Features:

- Frequency range: 220-330GHz
- Low Insertion Loss
- High Isolation
- Compact Package

### Applications:

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

### Electrical Characteristics:

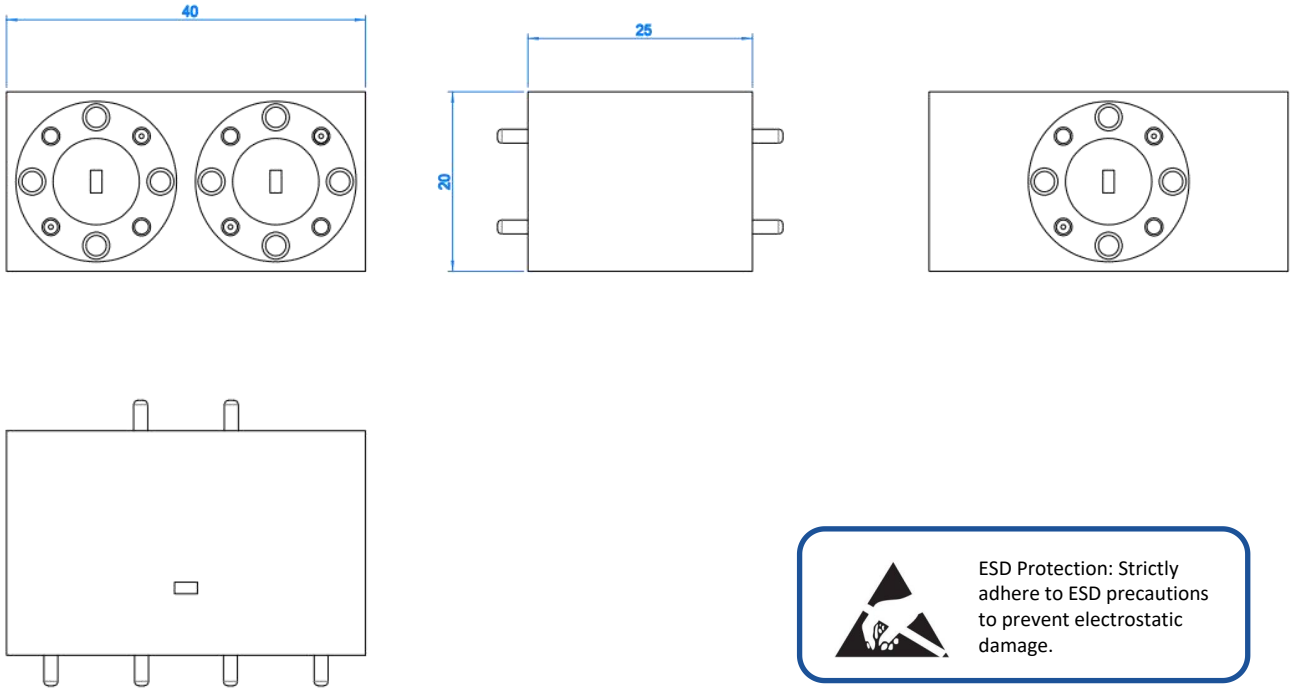
| Parameter          | Min | Typ  | Max | Units |
|--------------------|-----|------|-----|-------|
| Frequency range    | 220 |      | 330 | GHz   |
| Insertion Loss     |     | 2.5  |     | dB    |
| Amplitude Balance  |     | ±1.2 |     | dB    |
| Port Isolation     |     | 17   |     | dB    |
| Input Return Loss  |     | -15  |     | dB    |
| Output Return Loss |     | -15  |     | dB    |

### Mechanical Specifications:

| Parameter               | Value           | Units |
|-------------------------|-----------------|-------|
| Input /Output Connector | WR-3.4/UG-387/U |       |
| Size                    | 20*25*40        | mm    |
| Material                | Brass           |       |
| Finish                  | Gold plated     |       |

## Outline Drawing:

Unit:mm; Tolerance:±0.1mm



## Environmental Conditions:

| Parameter                       | Min                                                 | Typ | Max  | Units |
|---------------------------------|-----------------------------------------------------|-----|------|-------|
| Operating Temperature           | -45                                                 |     | +85  | °C    |
| Non-operating Temperature       | -55                                                 |     | +125 | °C    |
| 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-220330-2-3.4 | 2-Way waveguide power divider, 220-330 GHz,<br>Insertion loss: 2.5 dB, Port Isolation: 17dB | Rev.1.0  |