Suzhou Talent Microwave,Inc
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# Waveguide Directional Coupler

## WR-2.2/WR-2.2/20dB Coupling

## Model: TC-330500-20-2.2

TC-330500-20-2.2 is a three-port waveguide directional coupler that delivers a 20 dB nominal coupling level and 25 dB typical directivity across the full waveguide band from 330 to 500 GHz. The interfaces of the directional coupler are WR-2.2 waveguides with UG-387/U anti-cocking flanges.

### Features:

- Operating Frequency 330 to 500GHz
- Full Band Operation
- Low Insertion Loss
- Moderate Directivity

### Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

### Electrical Characteristics:

| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Frequency Range | 330 | | 500 | GHz |
| Insertion Loss | | 3 | | dB |
| Coupling | | 20 | | dB |
| Coupling Accuracy | | ±2 | | dB |
| Isolation | | 45 | | dB |
| Directivity | | 25 | | dB |
| Main Line VSWR | | 1.1 | | :1 |
| Coupling Port VSWR | | 1.1 | | :1 |

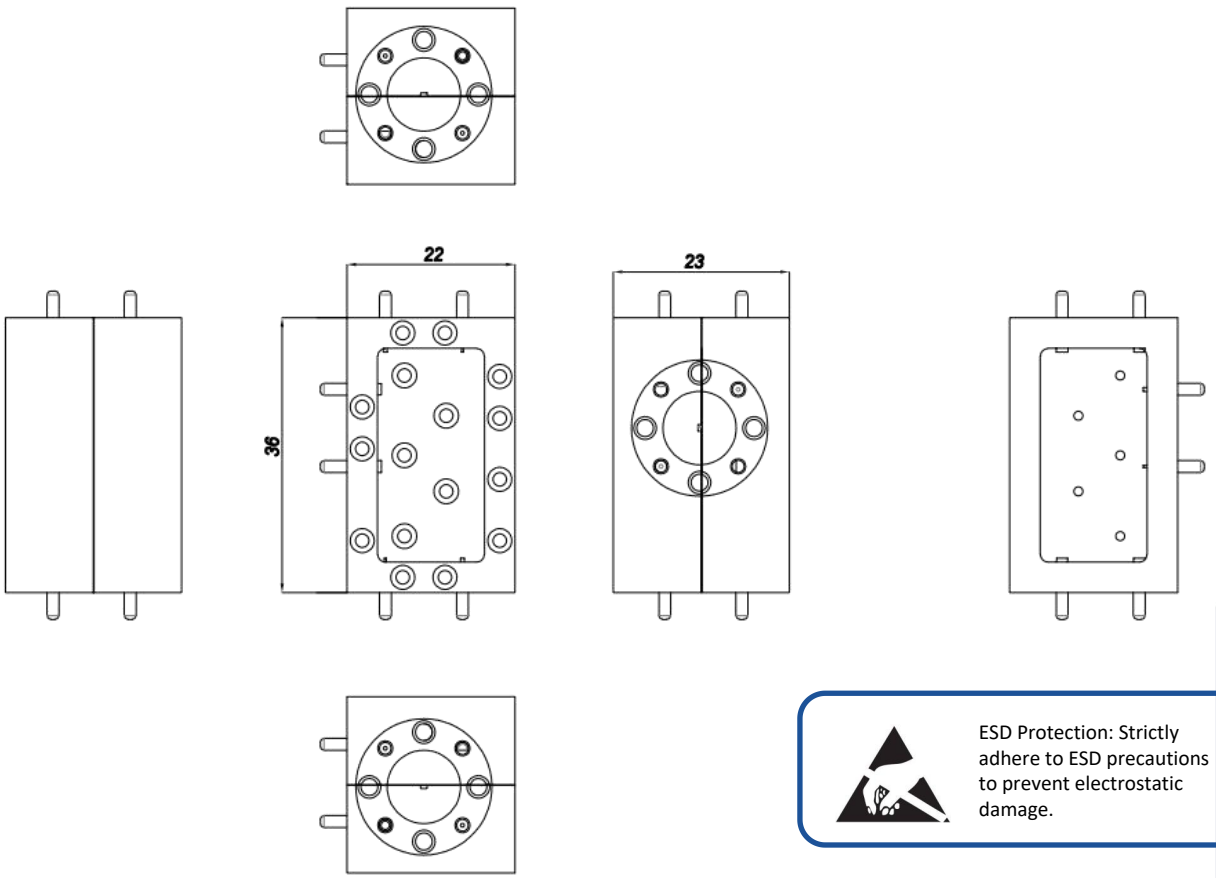
### Envrionmental And Physical Characteristics:

| Parameter | Value | Units |
|---|---|---|
| Operating Temerature | -40 To +85 | ℃ |
| Storage Temerature | -40 to +85 | ℃ |
| RF Connectors | WR-2.2/UG-387/U | |
| Coupled Port | WR-2.2/UG-387/U | |
| Size | 36*22*23 | mm |

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## Outline Drawing:

Unit:mm; Tolerance:±0.1mm




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

## Ordering Information:

| Base Number | Description | Revision |
|---|---|---|
| TC-330500-20-2.2 | Waveguide Directional Coupler, 330-500GHz, Coupling:20dB Typ, WR-2.2/UG-387/U | Rev.1.0 |