Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

# J-band Waveguide Directional Coupler

## WR-3.4/WR-3.4/10dB Coupling

## Model: TC-220330-10-3.4

TC-220330-10-3.4 is a J-band, three-port waveguide directional coupler that delivers a 10 dB nominal coupling level and 30 dB typical directivity across the full waveguide band from 220 to 330 GHz. The interfaces of the directional coupler are WR-3.4 waveguides with UG-387/U anti-cocking flanges.

### Features:

- Operating Frequency 220 to 330GHz
- Full Band Operation
- Low Insertion Loss
- Moderate Directivity

### Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

### Electrical Characteristics:

| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Frequency Range | 220 | | 330 | GHz |
| Insertion Loss | | 3 | | dB |
| Coupling | | 10 | | dB |
| Coupling Accuracy | | ±2 | | dB |
| Isolation | | 40 | | dB |
| Directivity | | 30 | | dB |
| Main Line VSWR | | 1.1 | | :1 |
| Coupling Port VSWR | | 1.1 | | :1 |

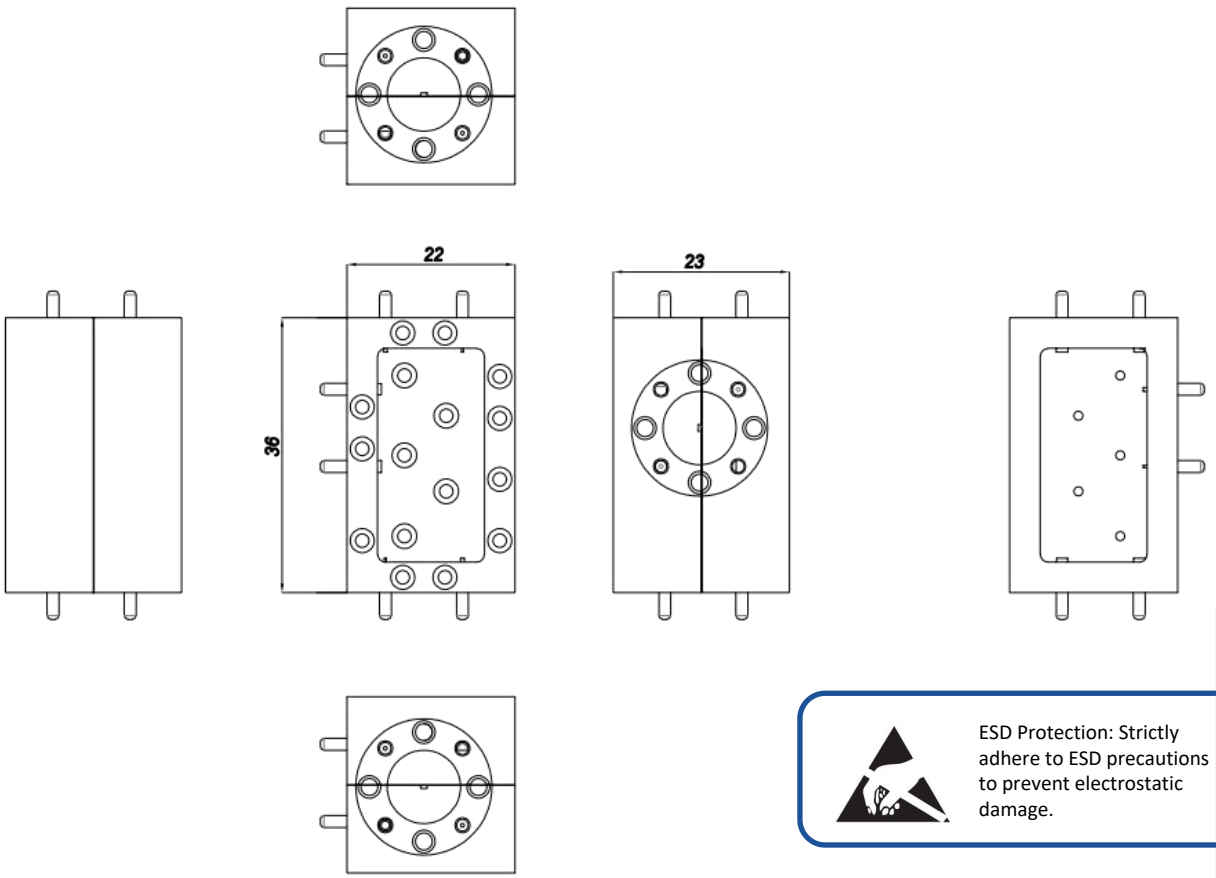
### Envrionmental And Physical Characteristics:

| Parameter | Value | Units |
|---|---|---|
| Operating Temerature | -40 To +85 | ℃ |
| Storage Temerature | -40 to +85 | ℃ |
| RF Connectors | WR-3.4/UG-387/U | |
| Coupled Port | WR-3.4/UG-387/U | |
| Size | 36*22*23 | mm |

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

## 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-220330-10-3.4 | J-band Waveguide Directional Coupler, 220-330GHz, Coupling:10dB Typ, WR-3.4/UG-387/U | Rev.1.0 |