Suzhou Talent Microwave,Inc
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# Coax Directional Coupler

## 1-50GHz/13dB Coupling/2.4mm Female

## Model: TC-10500-13-2.4

TC-10500-13-2.4 is a coaxial directional coupler that delivers a 13 dB nominal coupling level and 8 dB minimum directivity across the full frequency range from 1 to 50 GHz. It is a three-port passive device that can couple a portion of the power from the main transmission line to the auxiliary line in a directional manner.

### Features:

- Output Frequency: 1-50GHz
- Coupling: 13dB Typ
- Stackable mechanical design
- Low Insertion Loss
- Moderate Directivity
- 50 Ohm Matched Input / Output

### Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

### Electrical Characteristics:

| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Frequency Range | 1 | | 50 | GHz |
| Insertion Loss (Excl Coupling) | | 3.0 | 3.5 | dB |
| Coupling | | 13±1.6 | | dB |
| Directivity | 8 | 10 | | dB |
| Power Handling | | | 30 | W |
| VSWR | | | 1.8 | :1 |
| Impedance | | 50 | | Ohms |

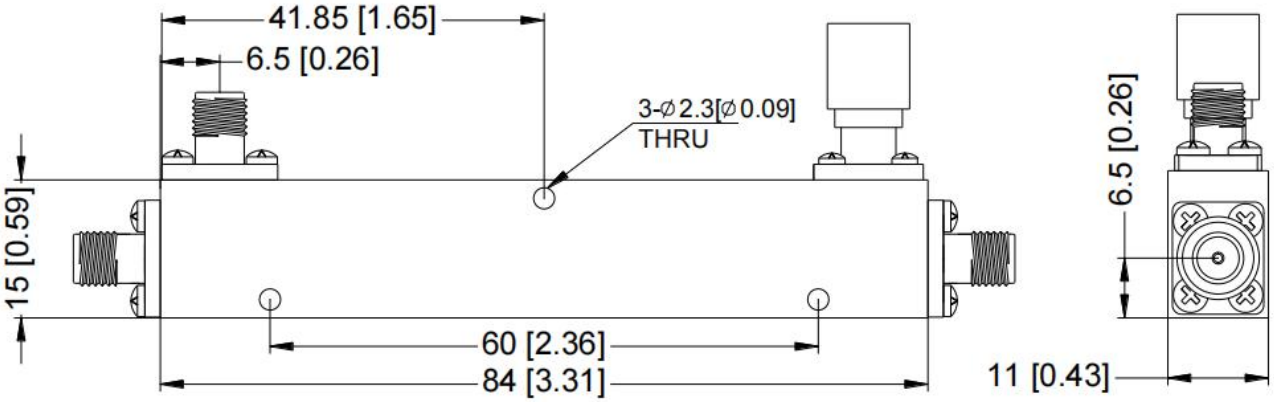
### Mechanical Specifications:

| Parameter | Value | Units |
|---|---|---|
| Operating Temperature | -55-+85 | ℃ |
| Input/Output Connector | 2.4mm Female/2.4mm Female | |
| Size | 84*15*11 | mm |

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## Outline Drawing:

Unit:mm




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

## Ordering Information:

| Base Number | Description | Revision |
|---|---|---|
| TC-10500-13-2.4 | Coaxial Directional Coupler<br>1-50GHz, Coulping:13dB, 2.4mm Female | Rev.1.0 |