Suzhou Talent Microwave,Inc
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# Coax Directional Coupler

## 0.8-2.5GHz/30dB Coupling/N Female

## Model: TC-0825-30N

TC-0825-30N is a coaxial directional coupler that delivers a 30 dB nominal coupling level and 20 dB minimum directivity across the full frequency range from 0.8 to 2.5 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: 0.8-2.5GHz
- Coupling: 30dB 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 | 0.8 | | 2.5 | GHz |
| Insertion Loss (Excl Coupling) | | | 0.4 | dB |
| Coupling | | 30±1.2 | | dB |
| Directivity | 20 | | | dB |
| Power Handling | | | 200 | W |
| VSWR | | | 1.3 | :1 |
| Impedance | | 50 | | Ohms |

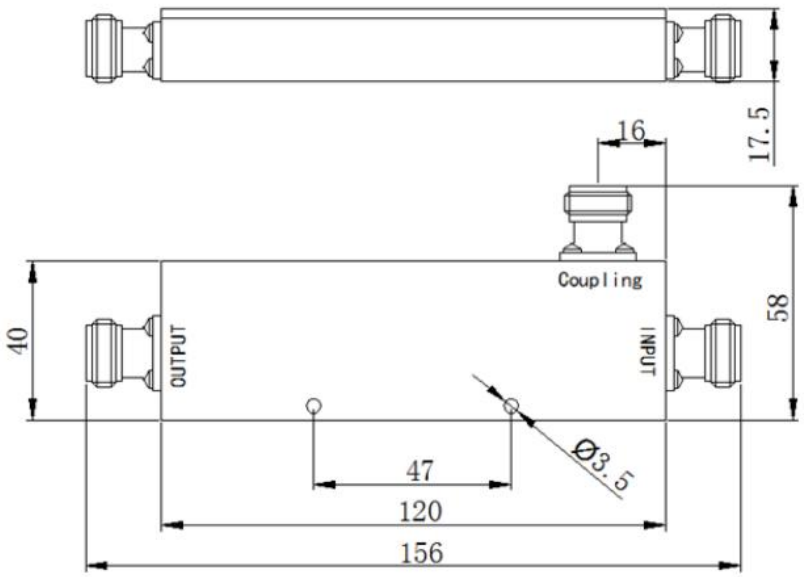
### Mechanical Specifications:

| Parameter | Value | Units |
|---|---|---|
| Input/Output Connector | N Female/N Female | |
| Size | 156*40*17.5 | mm |

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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 |
|---|---|---|---|---|
| Temperature Range | -40 | | +70 | ℃ |
| Relative humidity | 100% RH at 35c, 95%RH at 40℃ | | | % |
| Altitude | 50,000 | | | 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 |
|---|---|---|
| TC-0825-30N | Coaxial Directional Coupler<br>0.8-2.5GHz, Coulping:30dB, N Female | Rev.1.0 |