泰莱微波
Talent Microwave

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# Coax Directional Coupler

## 8-12GHz/13dB Coupling/SMA Female

## Model: TC-80120-13S

TC-80120-13S is a coaxial directional coupler that delivers a 13 dB nominal coupling level and 12 dB minimum directivity across the full frequency range from 8 to 12 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:8-12GHz
- 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 | 8 | | 12 | GHz |
| Insertion Loss (Excl Coupling) | | 0.6 | 0.8 | dB |
| Coupling | | 13±1 | | dB |
| Directivity | 12 | 14 | | dB |
| Power Handling | | | 50 | W |
| VSWR(IN) | | | 1.5 | :1 |
| VSWR(Secondary) | | | 1.5 | :1 |
| Impedance | | 50 | | Ohms |

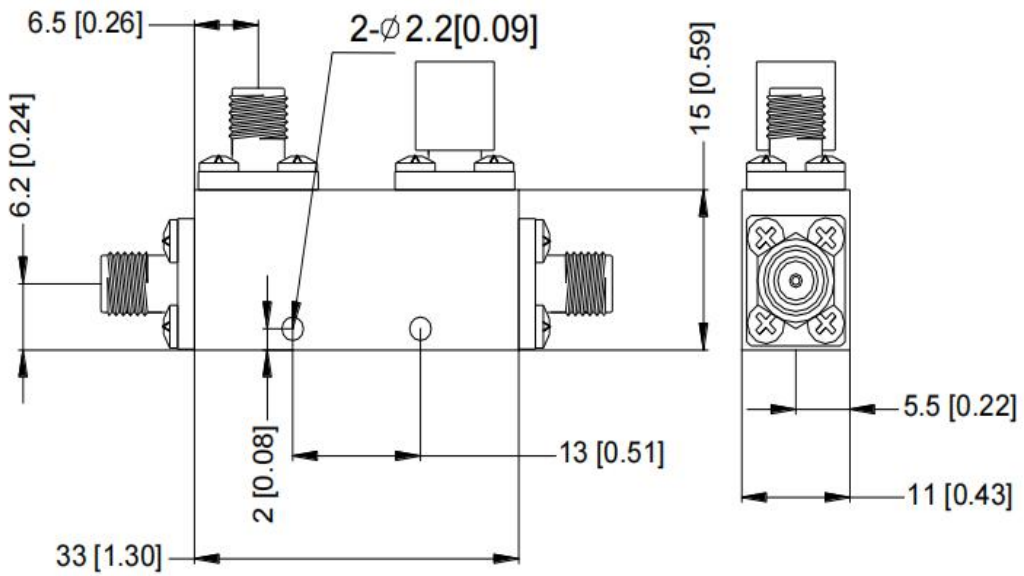
### Mechanical Specifications:

| Parameter | Value | Units |
|---|---|---|
| Operating Temperature | -55-+85 | ℃ |
| Input/Output Connector | SMA Female/SMA Female | |
| Size | 33*15*14 | 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-80120-13S | Coaxial Directional Coupler<br>8-12GHz, Coulping:13dB, SMA Female | Rev.1.0 |