泰莱微波
Talent Microwave

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# 3dB Coaxial 90 Degree Hybrid Coupler

## 80-500MHz/90-Degrees

## Model: TBG-00805-3S-90

The TBG-00805-3S-90 is a coaxial 90 degree hybrid coupler that operates over a 80MHz to 500MHz bandwidth, with typical 3 dB coupling and maximum 1.8dB insertion loss. The minimum port to port isolation for the coupler is 18dB. The input and output port configuration offers coax adapter structure with SMA female.

## Features:

- Frequency range: 80-500MHz
- Insertion Loss: 1.8dB Max
- Coupling: 3dB Typ
- Designed for Optimal Phase/Amplitude Balance

## Applications:

- Communication systems
- Lab Test
- Instrumentations

## 电气特性 Electrical Characteristics:

| 参数 Parameter | Min | Typ | Max | 单位 Units |
|---|---|---|---|---|
| 频率范围 Frequency range | 300KHz | | 26GHz | |
| 插损 Insertion Loss | | | 1.8 | dB |
| 耦合度 Coupling | | 3 | | dB |
| 隔离度 Isolation | 18 | | | dB |
| 幅度平衡 Amplitude Balance | | | ±1.5 | dB |
| 相位平衡 Phase Balance | | | ±5 | ° |
| 驻波 VSWR | | | 1.4 | :1 |
| 耐功率 Power Handling | | | 50 | W |
| 阻抗 Impedance | | 50 | | Ohms |

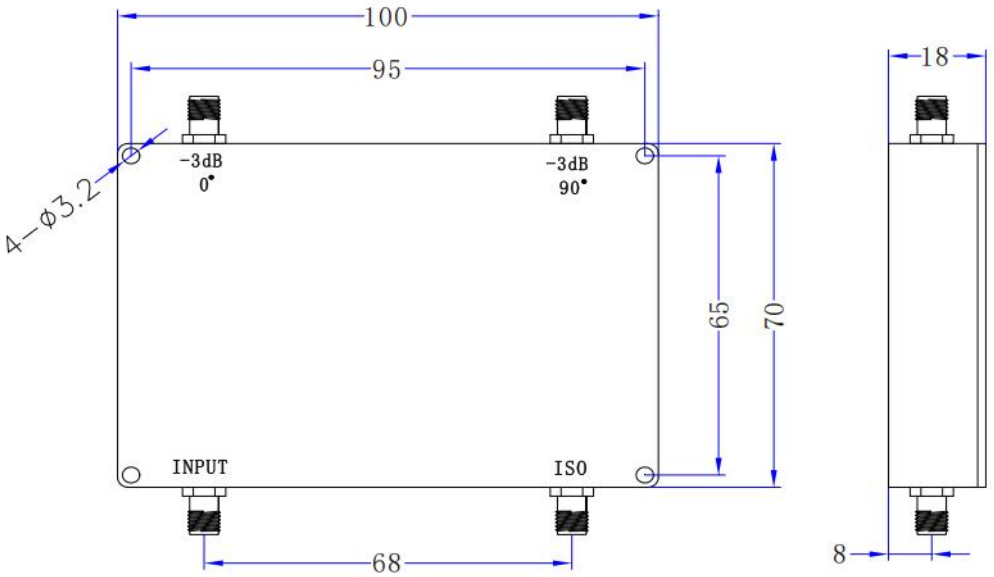
## 机械特性 Mechanical Specifications:

| 参数 Parameter | 指标 Value | 单位 Units |
|---|---|---|
| 操作温度 Operating Temerature | -40 To +80 | ℃ |
| 相对湿度 Relative Humidity | 0~90 | % |
| 输入/输出接口 Input /Output Connector | SMA Female/SMA Female | |
| 尺寸 Size | 100*70*18 | mm |

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## 外形图 Outline Drawing:

Unit:mm




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

## 订货信息 Ordering Information:

| 标准型号 Base Number | 描述 Description | 版本号 Revision |
|---|---|---|
| TBG-00805-3S-90 | 3dB Coaxial 90 Degree Hybrid Coupler, 80-500MHz, SMA Female | Rev.1.0 |