泰莱微波
Talent Microwave

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

# 3dB Coaxial 90 Degree Hybrid Coupler

## 10-26.5GHz/90-Degrees

## Model: TBG-100265-3S-90

The TBG-100265-3S-90 is a coaxial 90 degree hybrid coupler that operates over a 10 to 26.5GHz bandwidth, with typical 3 dB coupling and maximum 2.6dB insertion loss. The minimum port to port isolation for the coupler is 10dB. The input and output port configuration offers coax adapter structure with SMA female.

## Features:

- Frequency range: 10-26.5GHz
- Insertion Loss: 2.6dB 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 | 10 | | 26.5 | GHz |
| 插损 Insertion Loss | | 2.5 | 2.6 | dB |
| 耦合度 Coupling | | 3 | | dB |
| 隔离度 Isolation | 10 | 14 | | dB |
| 幅度平衡 Amplitude Balance | | | ±1.4 | dB |
| 相位平衡 Phase Balance | | | ±14 | ° |
| 驻波 VSWR | | 1.4 | 1.9 | :1 |
| 耐功率 Power Handling | | | 50 | W |
| 阻抗 Impedance | | 50 | | Ohms |

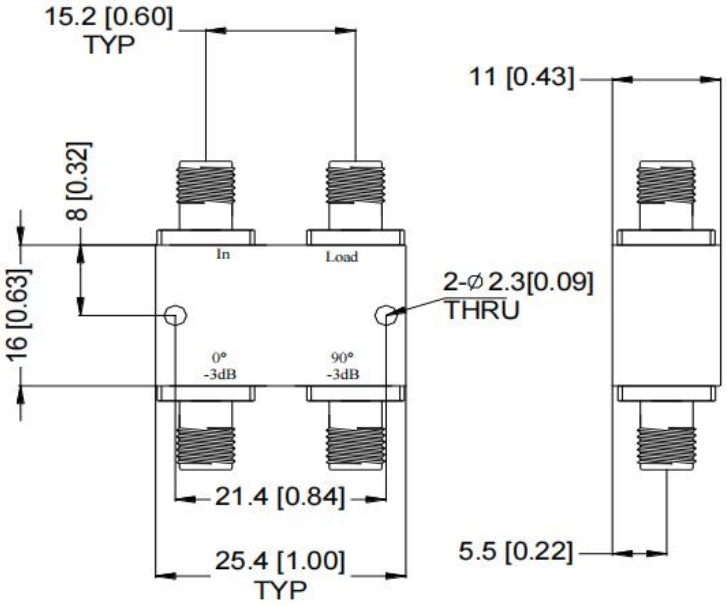
## 机械特性 Mechanical Specifications:

| 参数 Parameter | 指标 Value | 单位 Units |
|---|---|---|
| 操作温度 Operating Temerature | -45 To +85 | ℃ |
| 相对湿度 Relative Humidity | 0~90 | % |
| 输入/输出接口 Input /Output Connector | SMA Female/SMA Female | |
| 尺寸 Size | 25.4*16*5.5 | mm |

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## 外形图 Outline Drawing:

Unit:mm(inch)



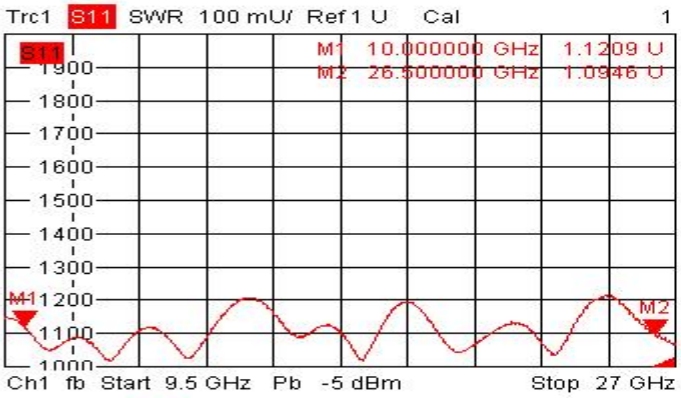

ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

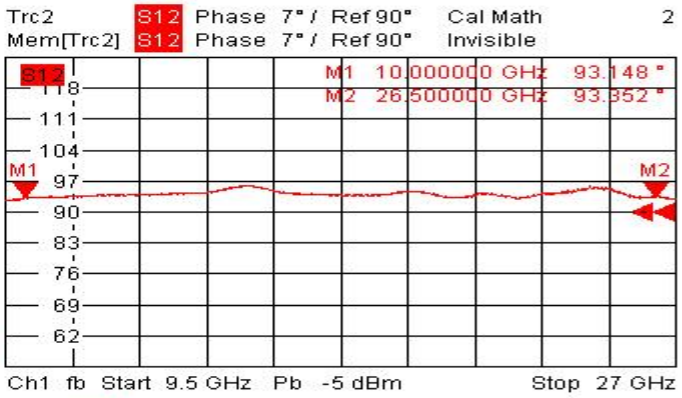
## 订货信息 Ordering Information:

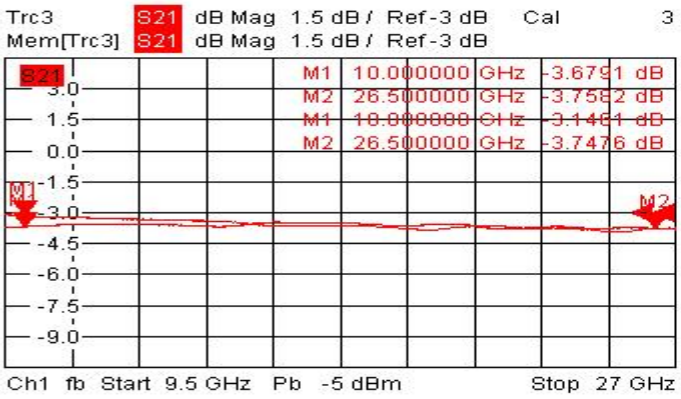
| 标准型号 Base Number | 描述 Description | 版本号 Revision |
|---|---|---|
| TBG-100265-3S-90 | 3dB Coaxial 90 Degree Hybrid Coupler, 10-26.5GHz, SMA Female | Rev.1.0 |

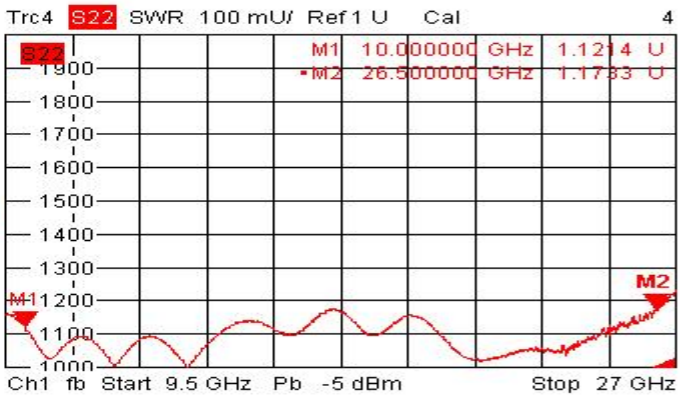
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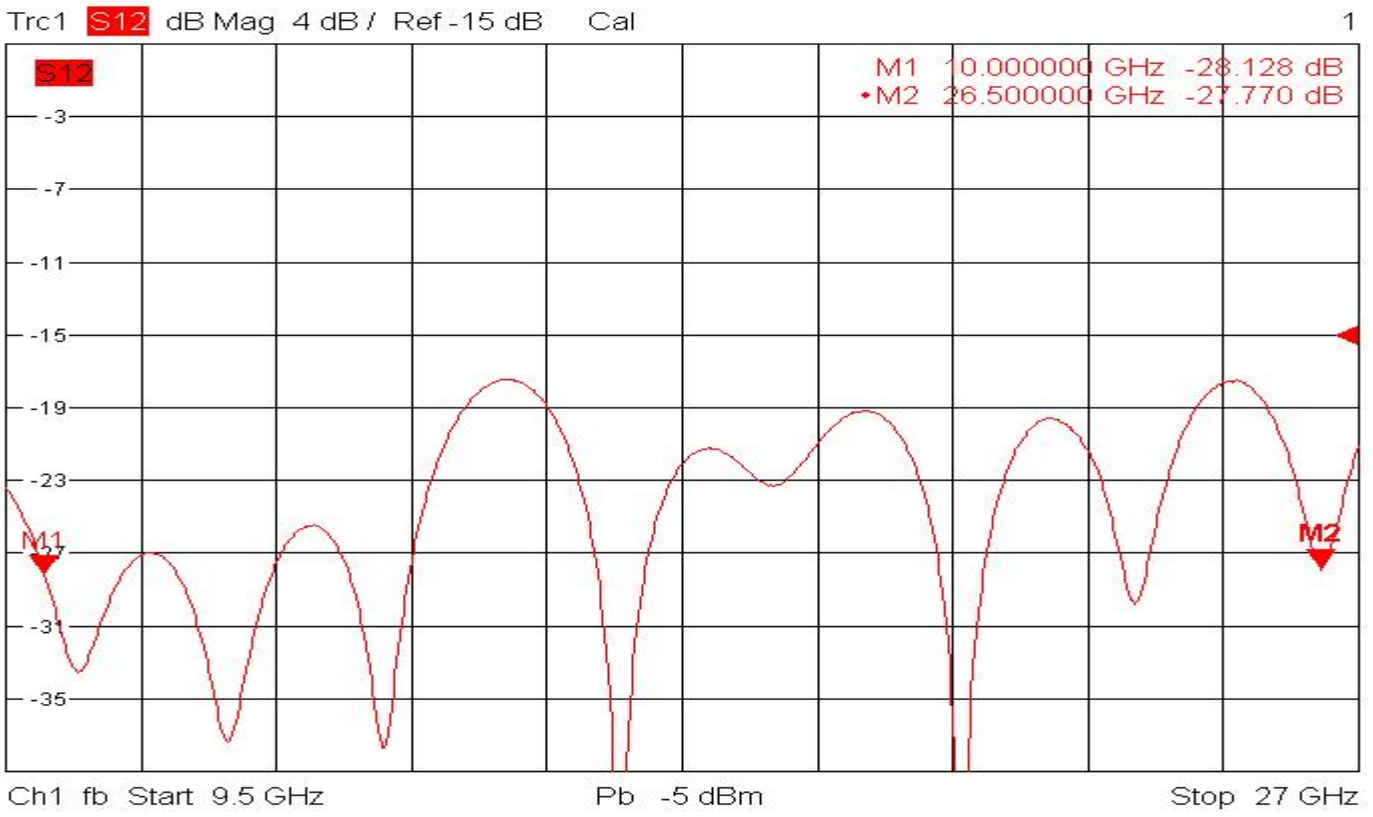
## 典型曲线 Typical Performance Data:




Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.