泰莱微波
Talent Microwave

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3dB Coaxial 90 Degree Hybrid Coupler

2-12GHz/90-Degrees

Model: TBG-20120-3S-90

The TBG-20120-3S-90 is a coaxial 90 degree hybrid coupler that operates over a 2 to 12GHz bandwidth, with typical 3 dB coupling and maximum 1.2dB insertion loss. The minimum port to port isolation for the coupler is 16dB. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 2-12GHz
- Insertion Loss: 1.2dB 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	2		12	GHz
插损 Insertion Loss		1.0	1.2	dB
耦合度 Coupling		3		dB
隔离度 Isolation	16	18		dB
幅度平衡 Amplitude Balance			±0.7	dB
相位平衡 Phase Balance			±10	°
驻波 VSWR		1.5	1.6	:1
耐功率 Power Handling			50	W
阻抗 Impedance		50		Ohms

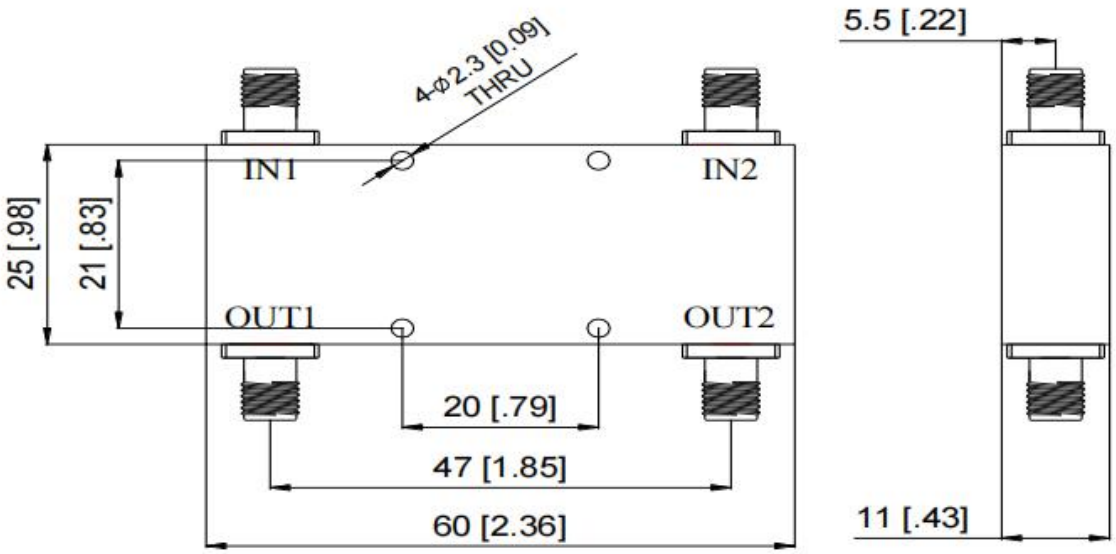
机械特性 Mechanical Specifications:

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	60*25*11	mm

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外形图 Outline Drawing:

Unit:mm(inch)



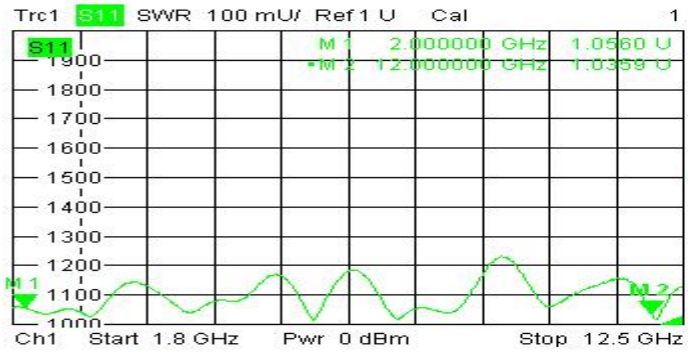
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

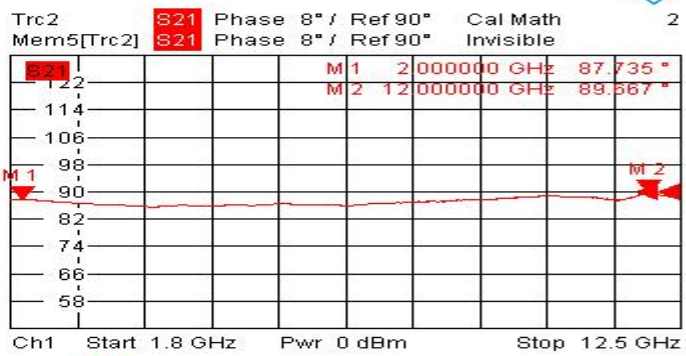
订货信息 Ordering Information:

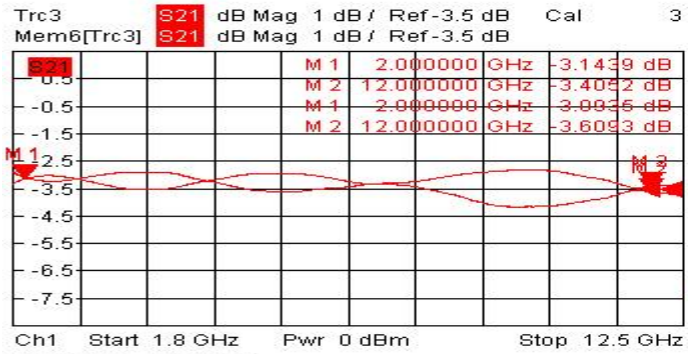
标准型号 Base Number	描述 Description	版本号 Revision
TBG-2080-3S-90	3dB Coaxial 90 Degree Hybrid Coupler, 2-8GHz, SMA Female	Rev.1.0

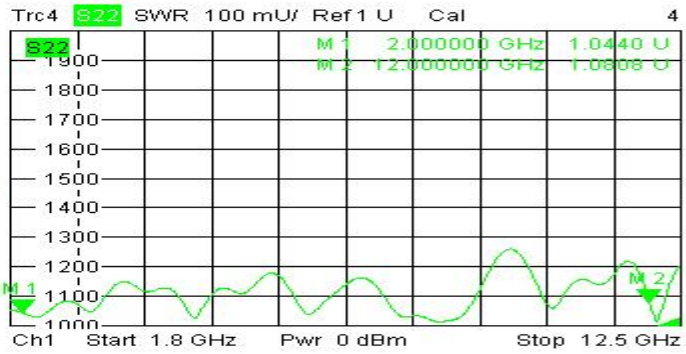
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典型曲线 Typical Performance Data:

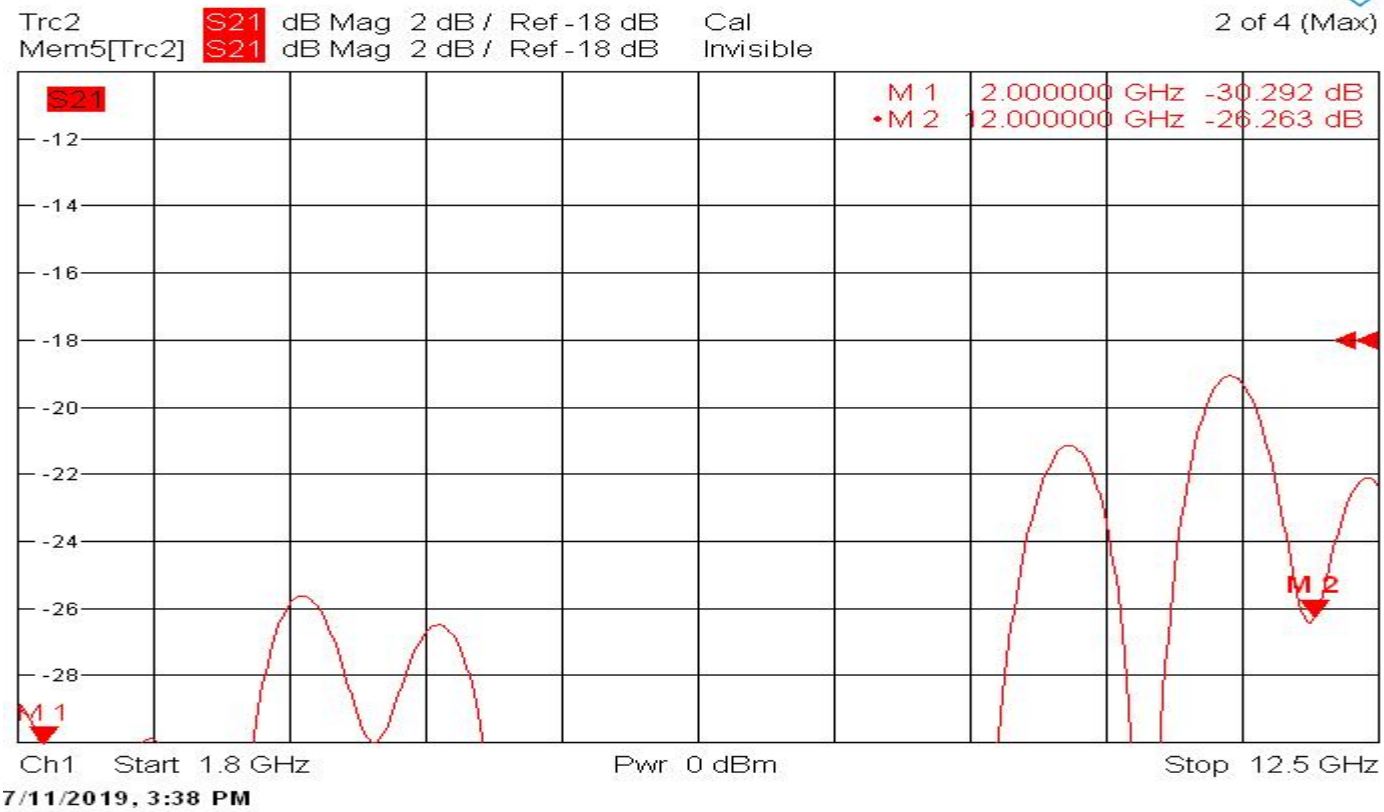








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Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.