泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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3dB Coaxial 90 Degree Hybrid Coupler

18-40GHz/90-Degrees

Model: TBG-180400-3K-90

The TBG-180400-3K-90 is a coaxial 90 degree hybrid coupler that operates over a 18 to 40GHz bandwidth, with typical 3 dB coupling and maximun 2.0dB insertion loss. The minimum port to port isolation for the coupler is 12dB. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 18-40GHz
- Insertion Loss: 2.0dB 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	18		40	GHz
插损 Insertion Loss		1.9	2.0	dB
耦合度 Coupling		3		dB
隔离度 Isolation	12	15		dB
幅度平衡 Amplitude Balance			±0.8	dB
相位平衡 Phase Balance			±10	°
驻波 VSWR		1.5	1.8	: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	2.92mm Female/2.92mm Female	
尺寸 Size	25.4*16*5.5	mm

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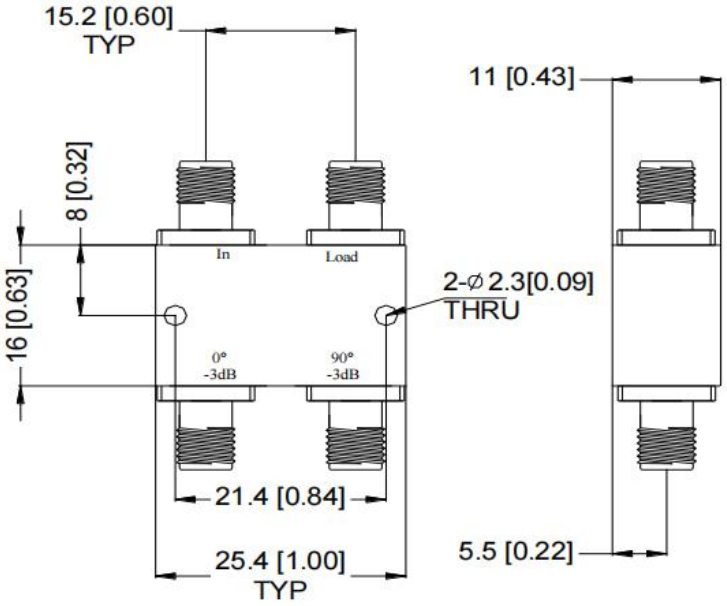
外形图 Outline Drawing:

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-180400-3K-90	3dB Coaxial 90 Degree Hybrid Coupler, 18-40GHz, 2.92mm Female	Rev.1.0

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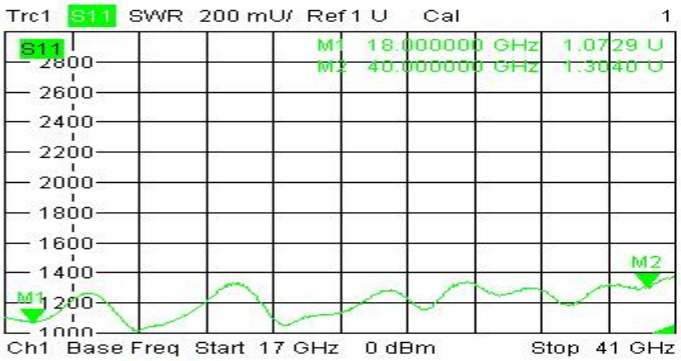
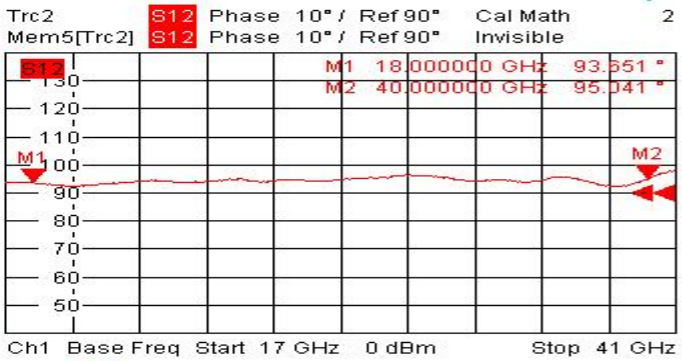
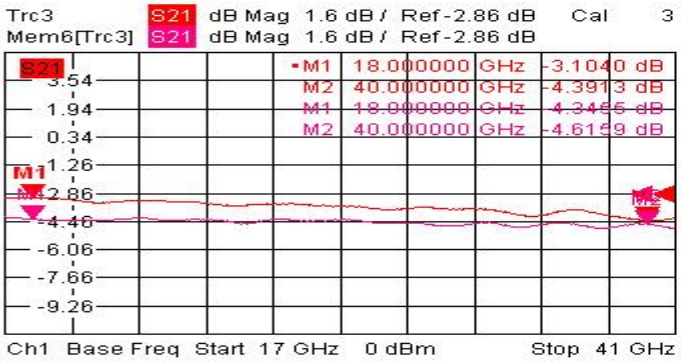
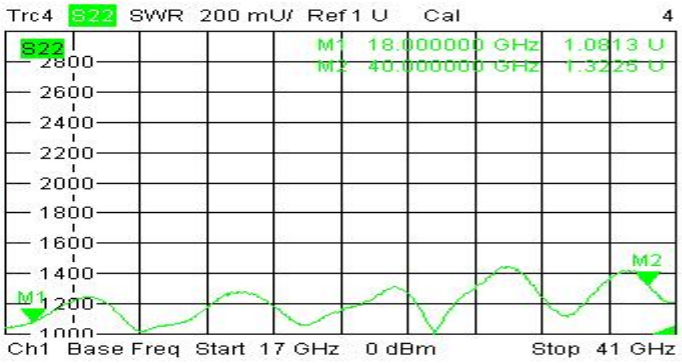
典型曲线 Typical Performance Data:









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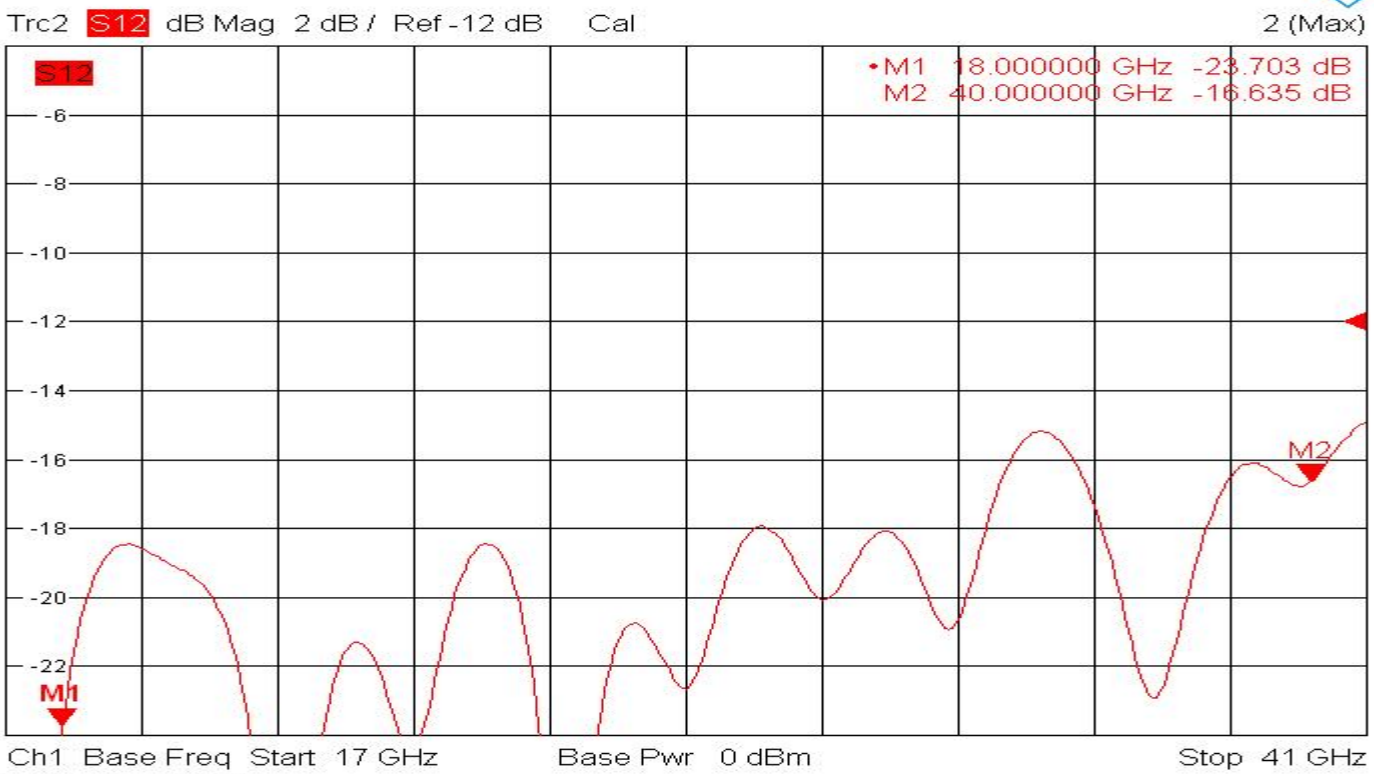

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Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.