

6-Way Coaxial Power Combiner

6-18GHz /1.6dB,Insertion Loss/18 dB,Isolation

Model: RS6W60180-S

The RS6W60180-S is a coaxial 6-way power combiner with insertion loss of 1.6 dB at each output port and isolation of 18 dB across the frequency range of 6 to 18 GHz. The power combiner has a forward power handling of 30 W (CW) and amplitude balance of ± 0.8 dB. The VSWR for input ports is 1.7/1.5:1 and output port is 1.5:1. The RF connectors of the power combiner are SMA female connectors.

Features:

- Ultra Wide Band:6-18GHz
- Low Insertion Loss

Applications:

- Test Lab
- Sub-assemblies
- Test Instrumentations

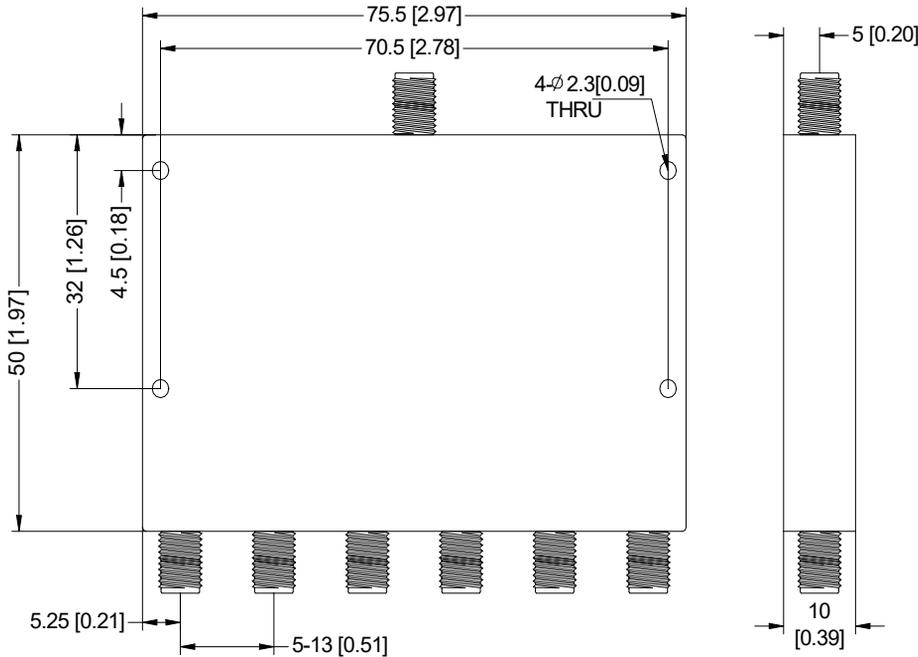
电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	6-18			GHz
插损 Insertion Loss			1.6	dB
幅度平衡 Amplitude Balance		± 0.8		dB
相位平衡 Phase Balance		± 8		°
端口隔离 Port Isolation	18			dB
耐受功率 Power Handling		30		W
输入驻波 Input VSWR			1.7	:1
输出驻波 Output VSWR			1.5	:1
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	

外形图 Outline Drawing: Unit:mm



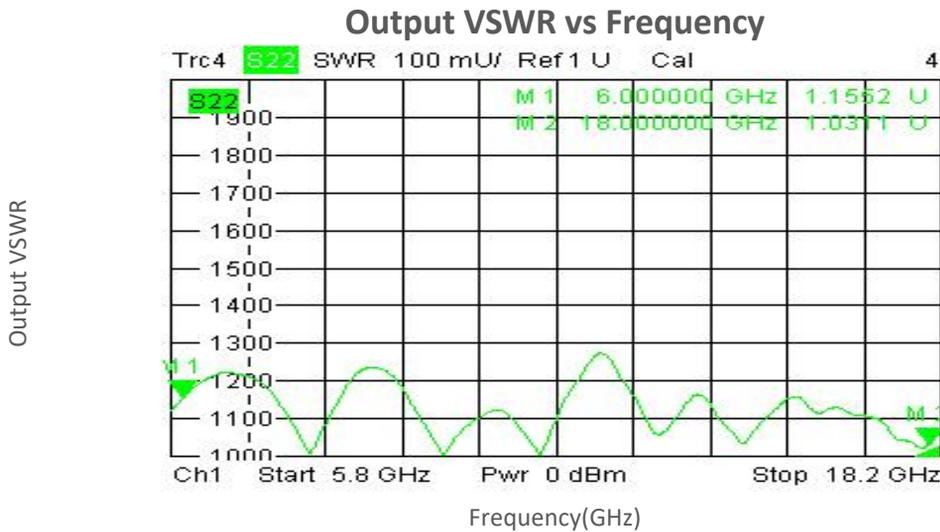
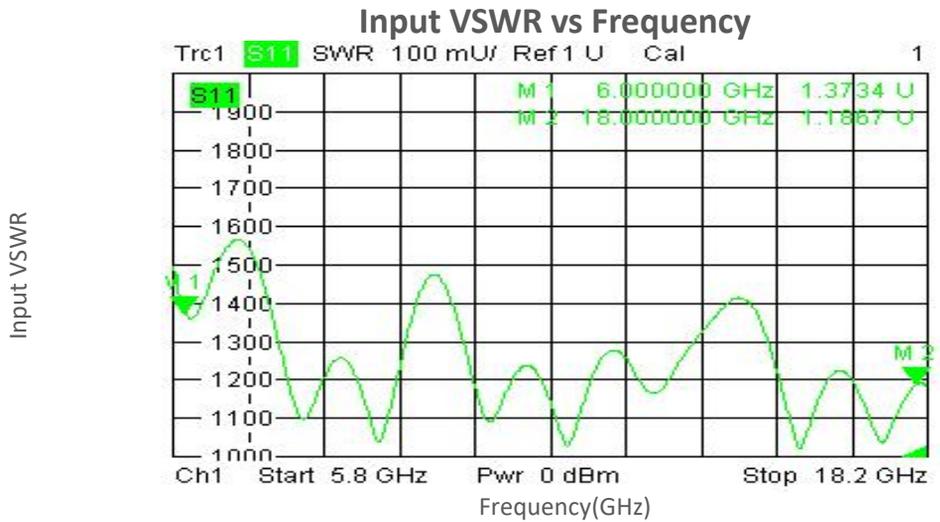
温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
------------------	----------------	--------------

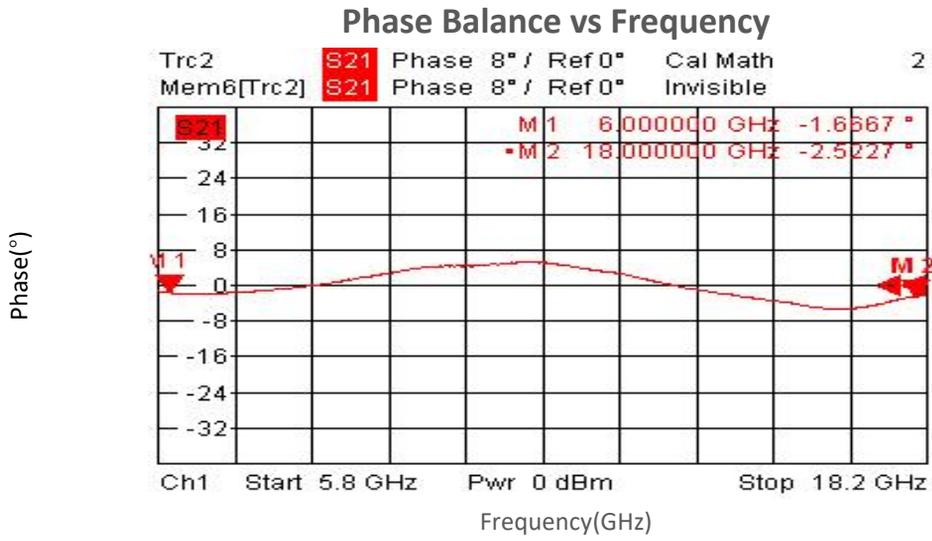
典型曲线 Typical Performance Data:



Isolation vs Frequency

Isolation(dB)

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.