

8-12GHz ,SMA Female

Feature:

- Frequency Range: 8-12GHz
- High Phase Shift Accuracy
- High Phase Shift Range
- Single Positive Control Voltage

电气特性 Electrical Specifications:

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	8-12			GHz
移相范围 Phase Range		360		°
插损 Insertion Loss		6		dB
插损温度系数 Insertion Loss Temperature Coefficient		0.003		dB/°C
输入回损 Input Return Loss		10		dB
输出回损 Output Return Loss		10		dB
控制电压 Control Voltage Range	0	13		V
控制电流 Control Current		5		mA
相位平坦度 Phase Flatness		±15		°
输入功率0.1dB压缩点 Input Power for 0.1 dB Compression		25		dBm
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	
尺寸 Size	20*14*9.5	mm
重量 Weight	/	g

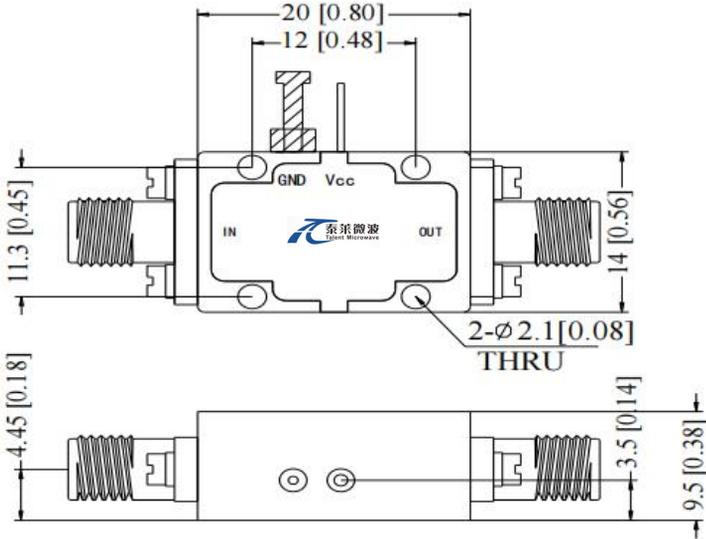
绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
控制电压 Control Voltage Range	+15V

耐受功率

外形尺寸 Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
 ELECTROSTATIC SENSITIVE
 DEVICES

温度环境 Environmental Conditions:

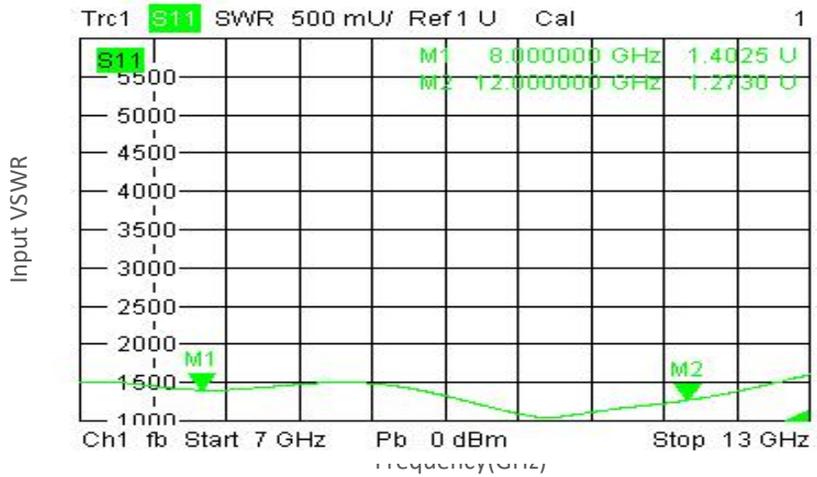
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	30,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

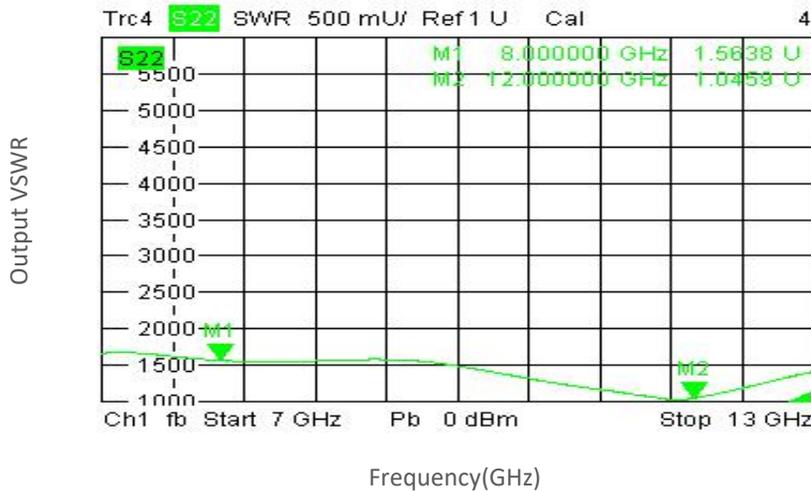
标准型号 Part Number	描述 Description	版本号 Revision
TLVP8G18G-360	Voltage Controlled Phase Shifter ,8-18GHz,SMA Female	Rev.1.1

0V-0°:

Input VSWR vs Frequency



Output VSWR vs Frequency

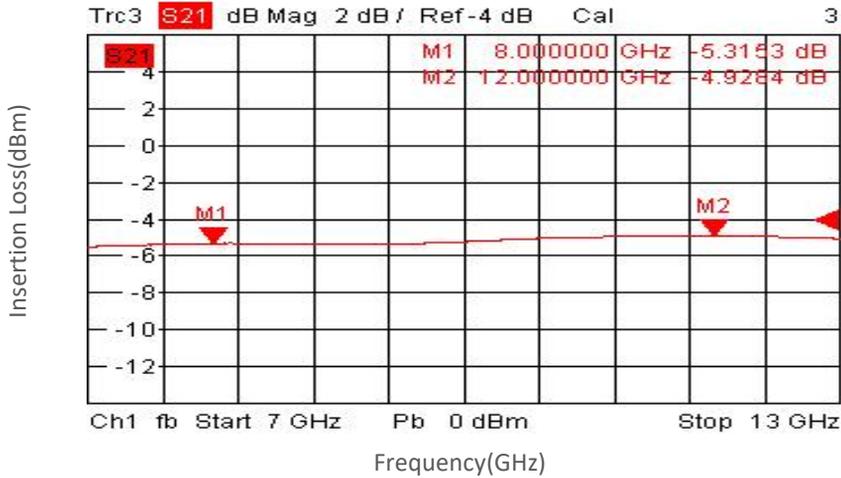


Phase vs Frequency

Phase(°)

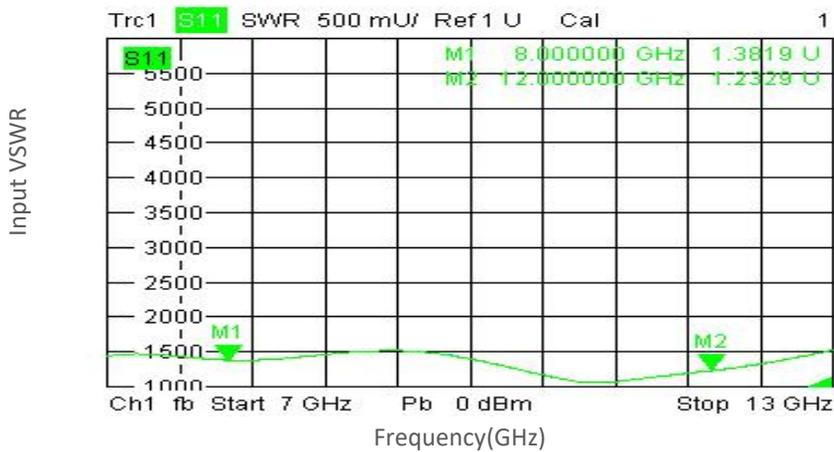
0V-0°:

Insertion Loss vs Frequency



0.12V-12°:

Input VSWR vs Frequency

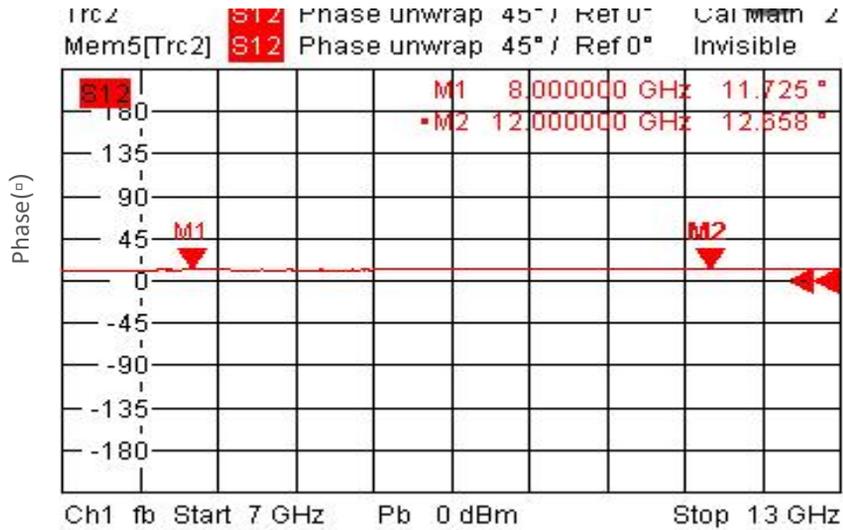


Output VSWR vs Frequency

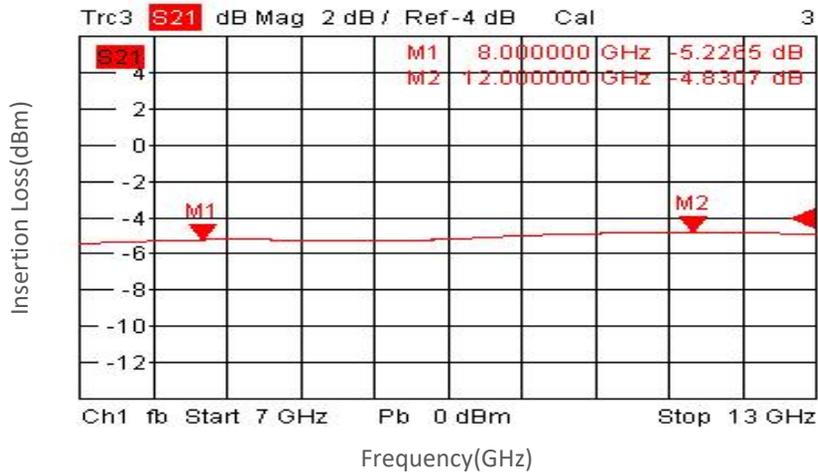
Output VSWR

0.12V-12°:

Phase vs Frequency



Insertion Loss vs Frequency



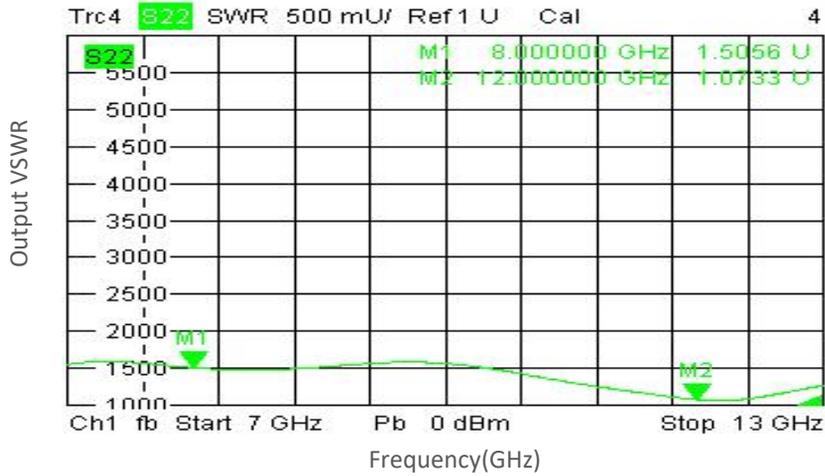
0.25V-24°:

Input VSWR vs Frequency

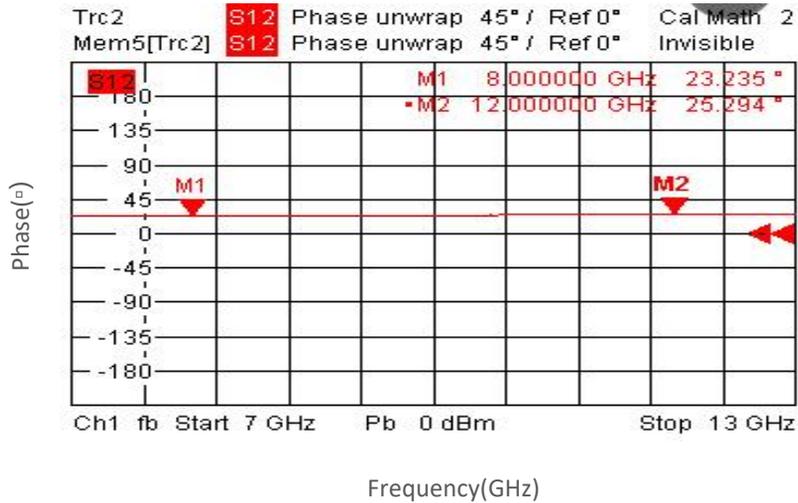
Input VSWR

0.25V-24°:

Output VSWR vs Frequency



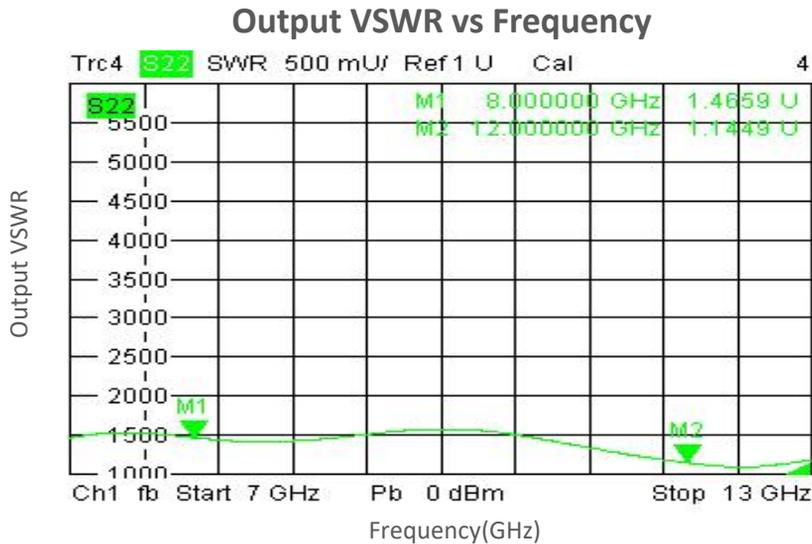
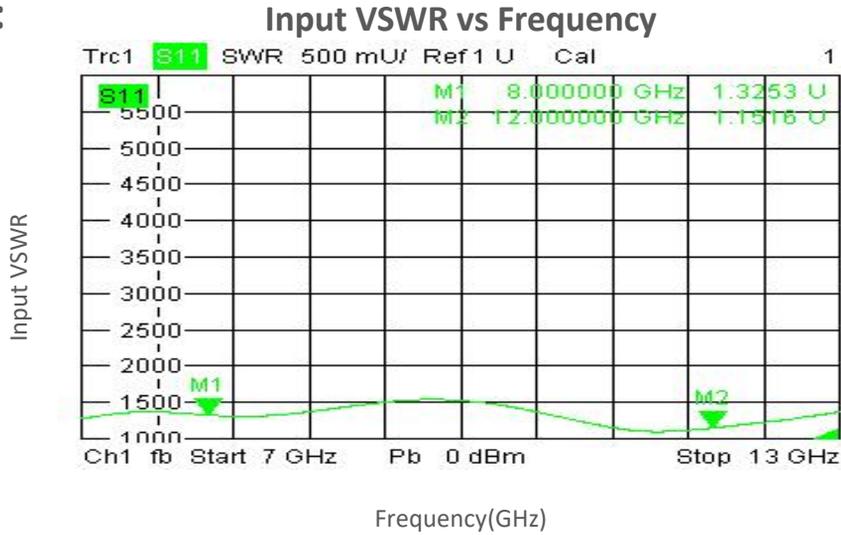
Phase vs Frequency



Insertion Loss vs Frequency

Insertion Loss(dBm)

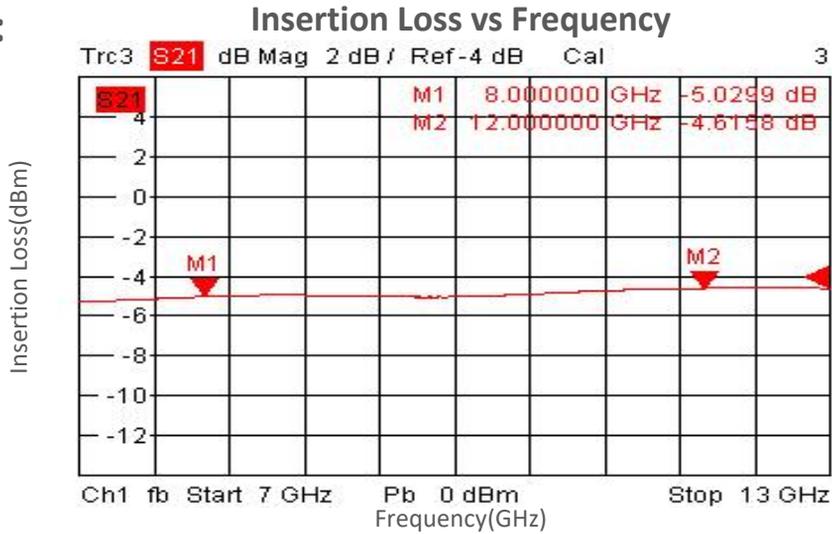
0.51V-45°:



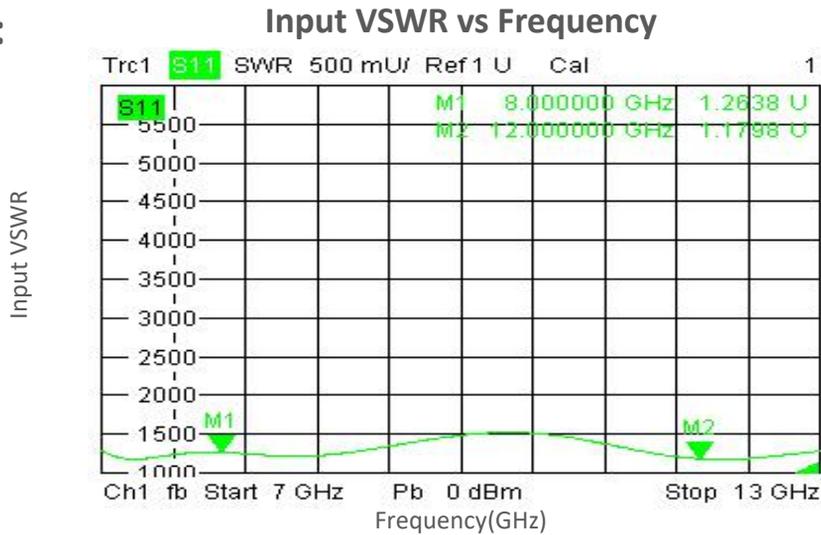
Phase vs Frequency

Phase(°)

0.52V-45°:



1.22V-90°:

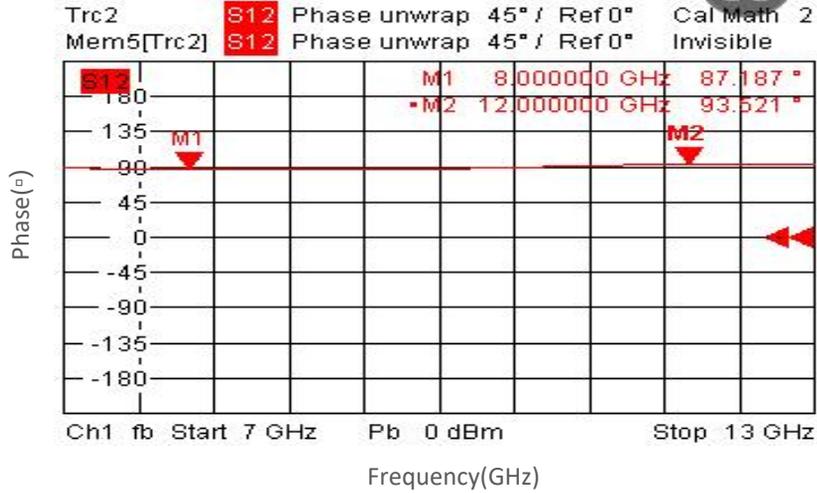


Output VSWR vs Frequency

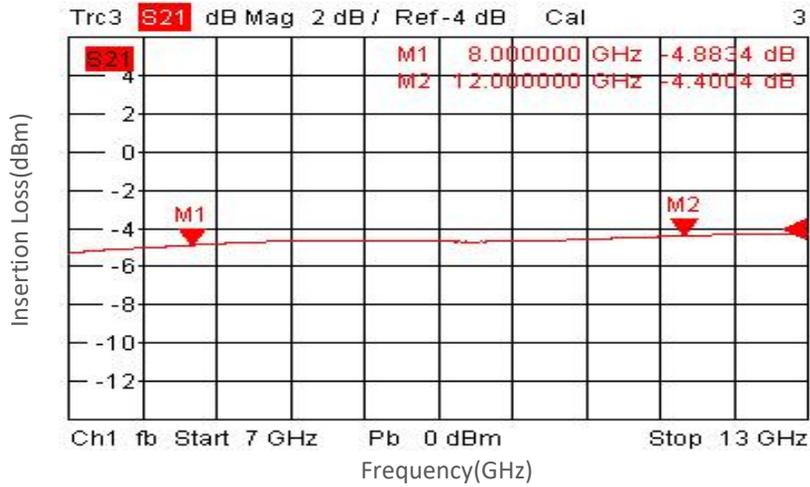
Output VSWR

1.26V-90°:

Phase vs Frequency



Insertion Loss vs Frequency



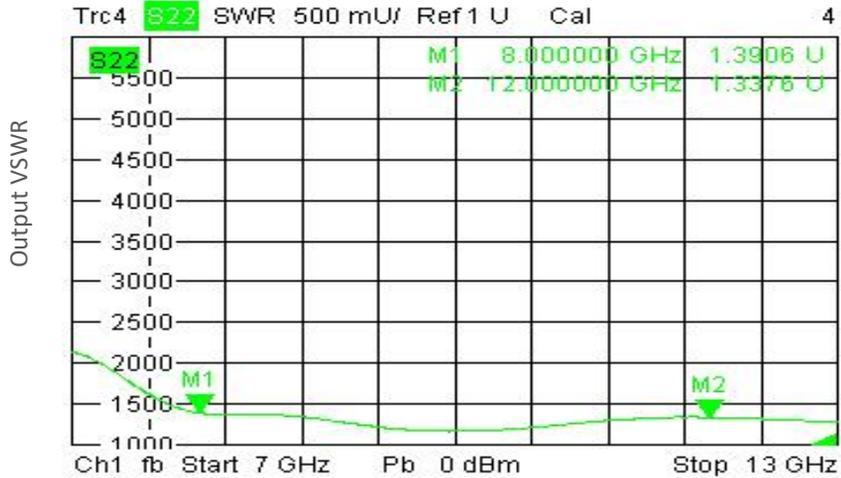
3.15V-180°:

Input VSWR vs Frequency

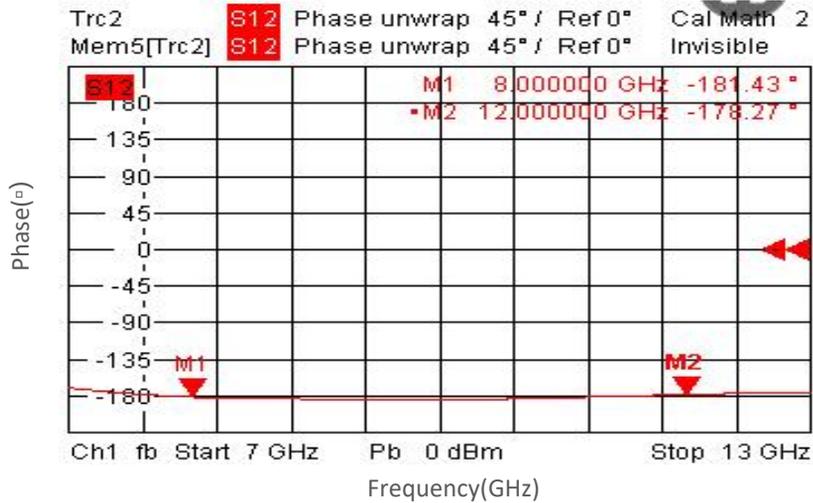
Input VSWR

3.15V-180°:

Output VSWR vs Frequency



Phase vs Frequency

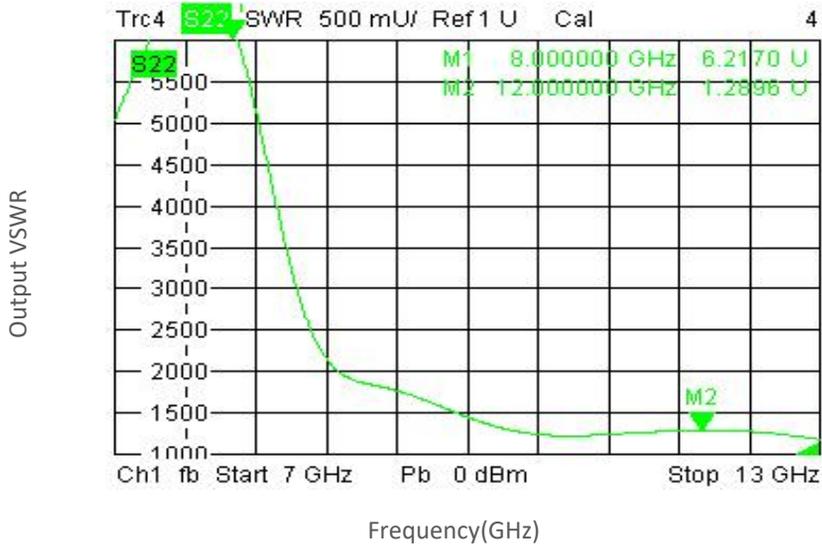
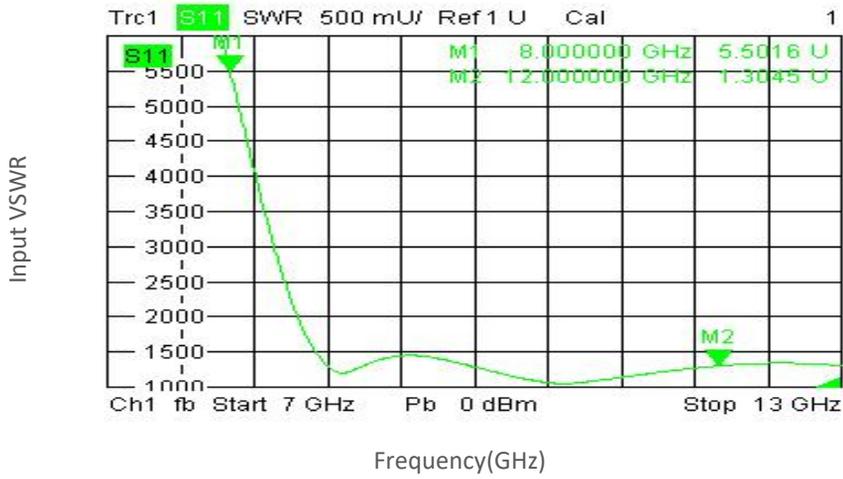


Insertion Loss vs Frequency

Insertion Loss(dBm)

8.65V-360°:

Input VSWR vs Frequency



Phase vs Frequency

Phase(°)

8.65V-360°:

Insertion Loss vs Frequency

