

4-8GHz ,SMA Female

Feature:

- Frequency Range: 4-8GHz
- 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	4-8			GHz
移相范围 Phase Range	0		360	°
插损 Insertion Loss			6	dB
输入驻波 Input VSWR			2.5	:1
输出驻波 Output VSWR			2.5	:1
控制电压 Control Voltage Range	0		10	V
控制电流 Control Current		5		mA
相位平坦度 Phase Flatness			12	°
输入功率 Input Power			27	dBm
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

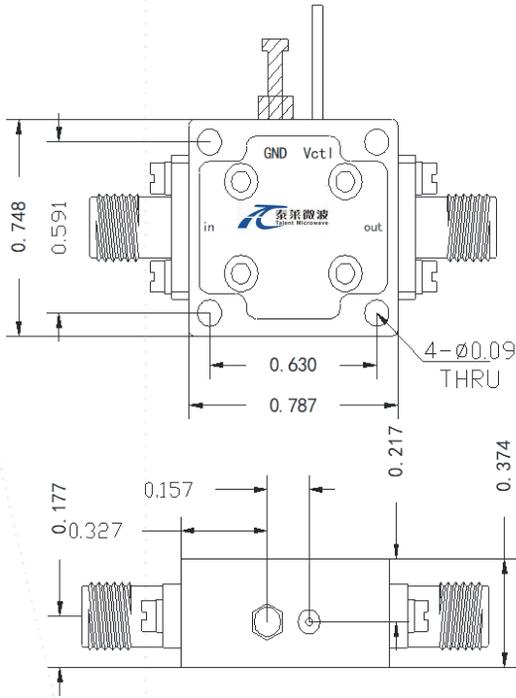
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
尺寸 Size	0.787*0.748*0.374	Inch
重量 Weight	/	g

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 RF Input Power No damage	+27 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: Inches



温度环境 Environmental Conditions:

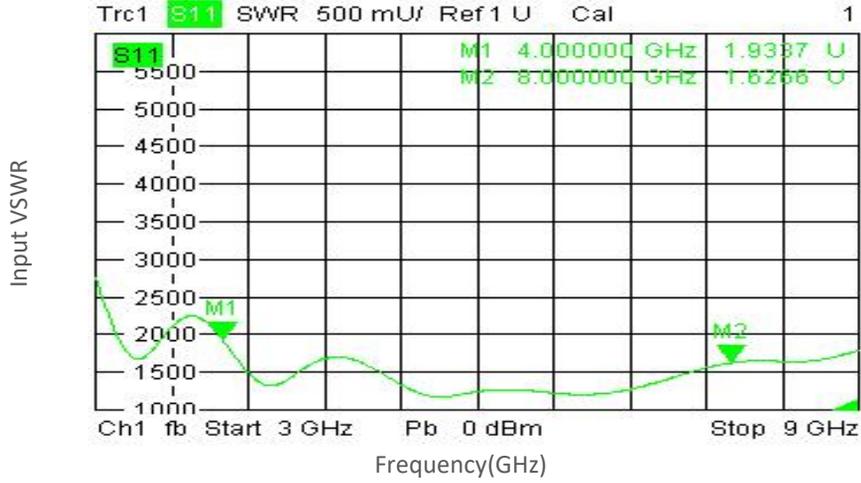
参数Parameter	Min	Typ	Max	单位Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20g for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

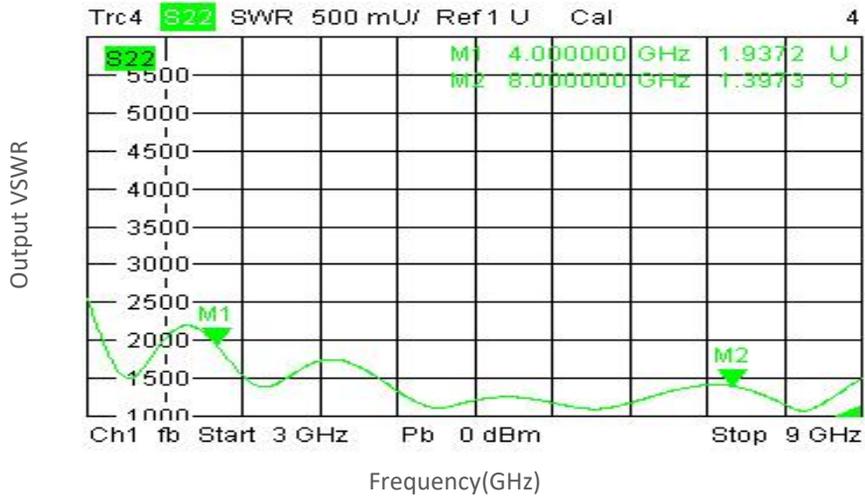
标准型号 Part Number	描述 Description	版本号Revision
TLVP4G8G-360	Voltage Controlled Phase Shifter ,4-8GHz,SMA Female	Rev.1.1

0V-0°:

Input VSWR vs Frequency



Output VSWR vs Frequency

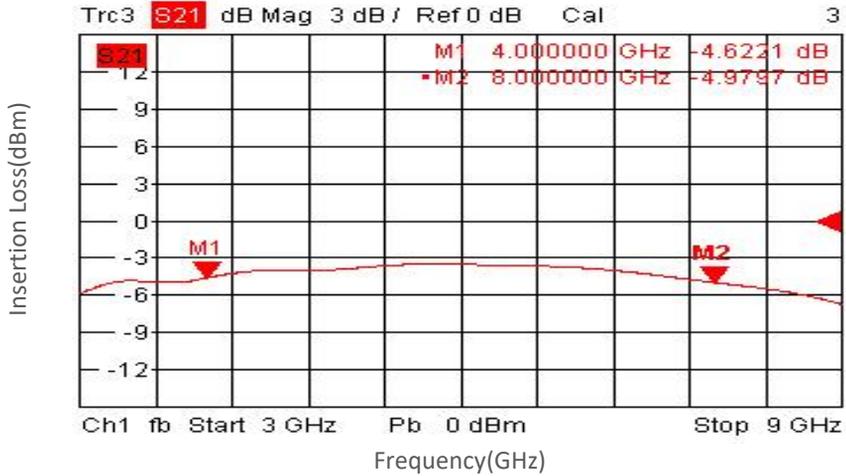


Phase vs Frequency

Phase(°)

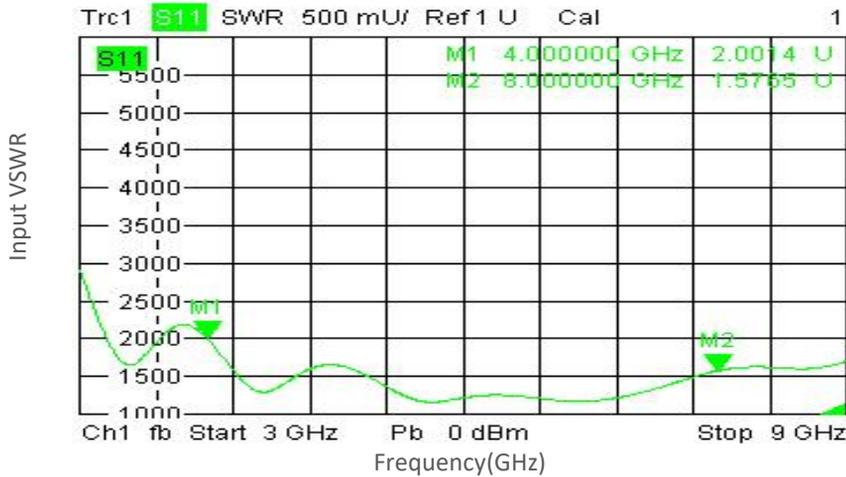
0V-0°:

Insertion Loss vs Frequency



0.1V-12°:

Input VSWR vs Frequency

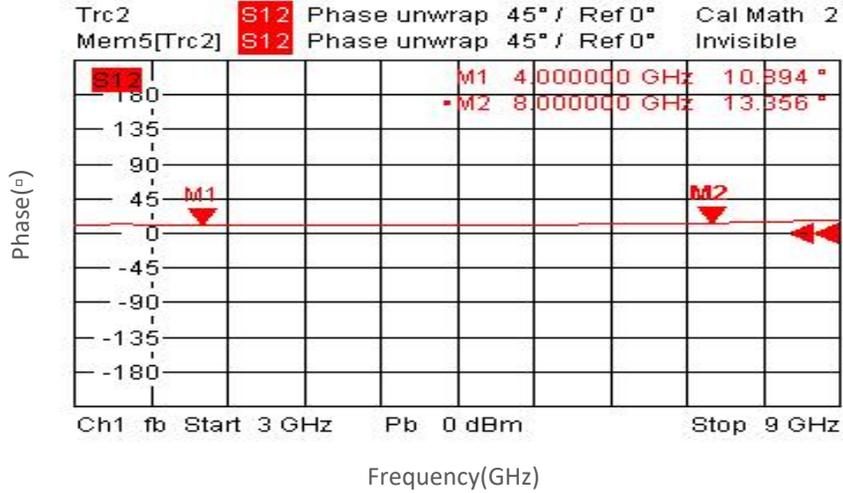


Output VSWR vs Frequency

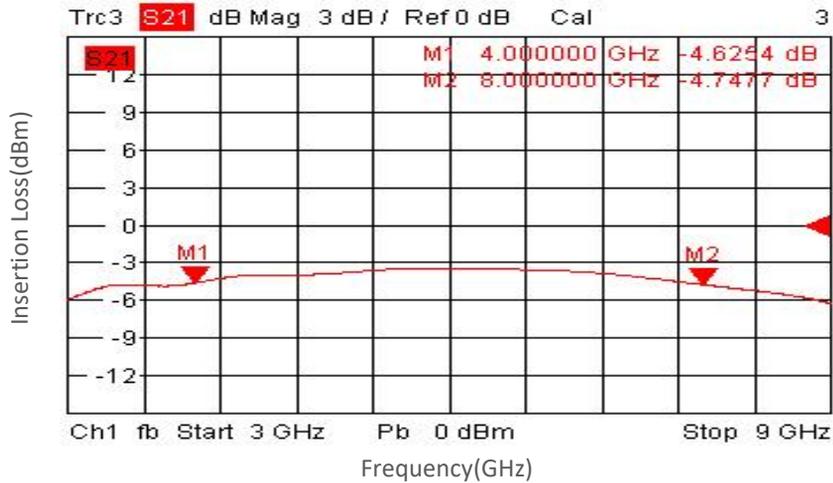
Output VSWR

0.1V-12°:

Phase vs Frequency



Insertion Loss vs Frequency



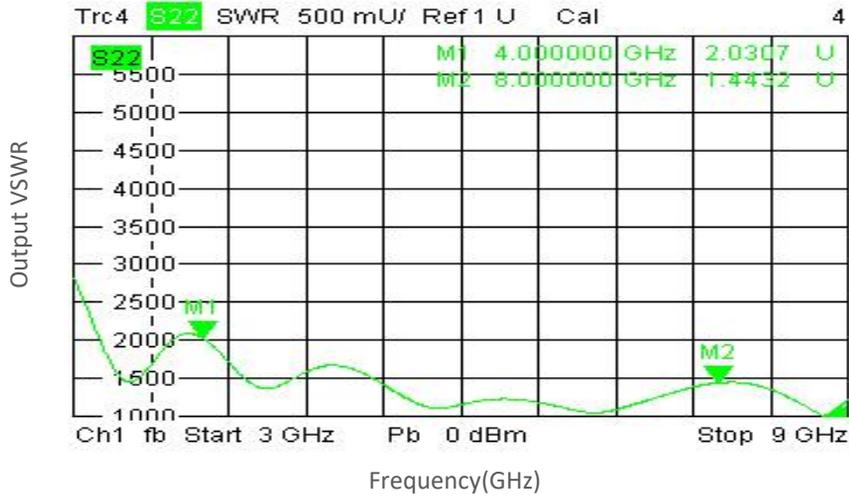
0.27V-24°:

Input VSWR vs Frequency

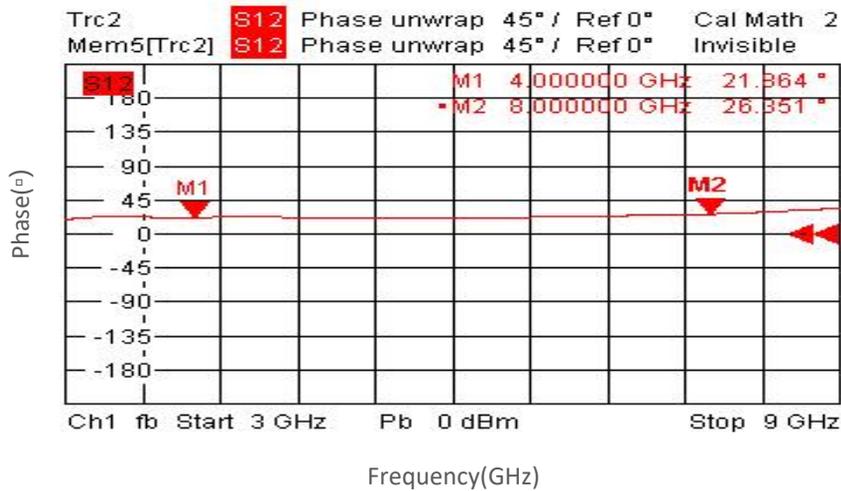
Input VSWR

0.27V-24°:

Output VSWR vs Frequency



Phase vs Frequency

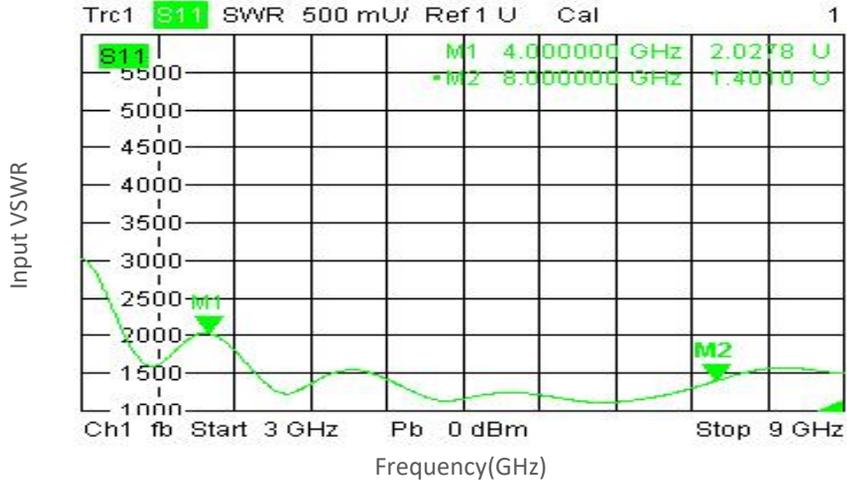


Insertion Loss vs Frequency

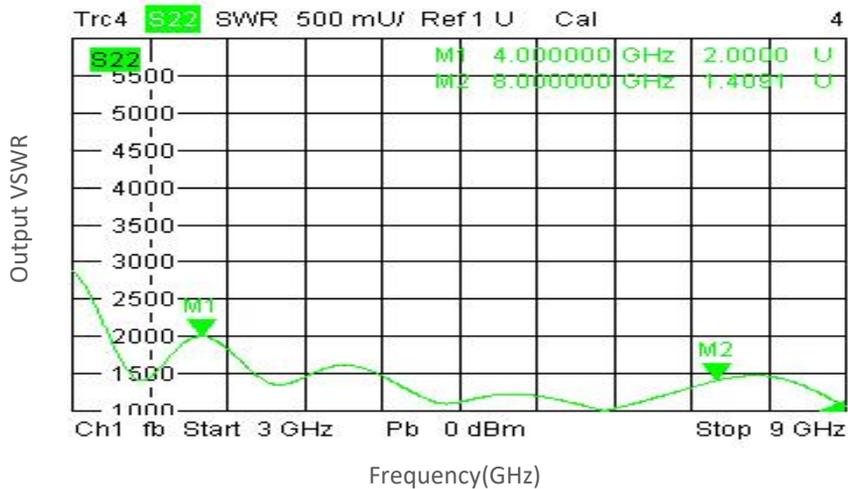
Insertion Loss(dBm)

0.47V-45°:

Input VSWR vs Frequency



Output VSWR vs Frequency

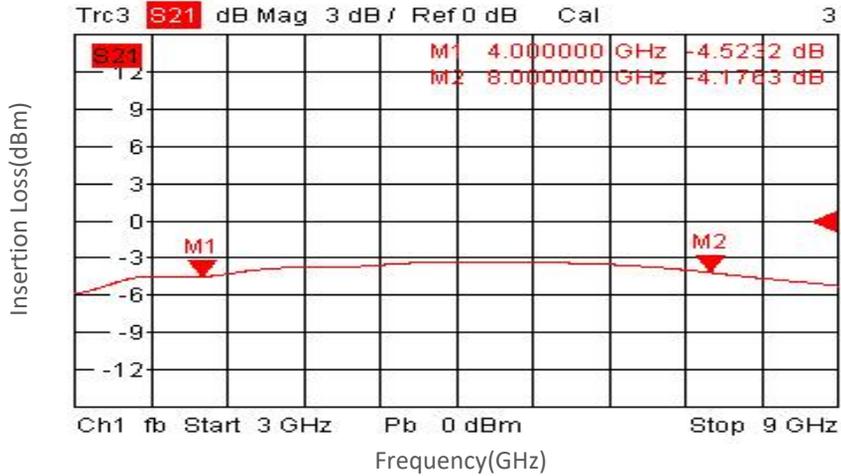


Phase vs Frequency

Phase(°)

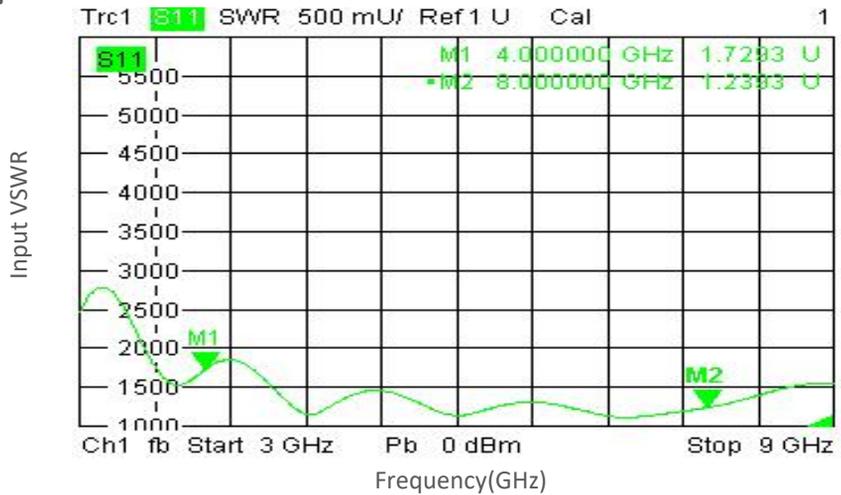
0.47V-45°:

Insertion Loss vs Frequency



1.13V-90°:

Input VSWR vs Frequency

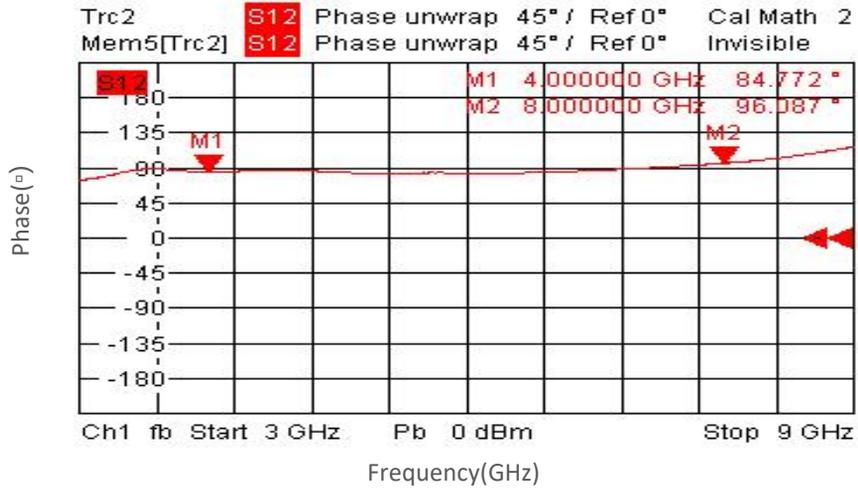


Output VSWR vs Frequency

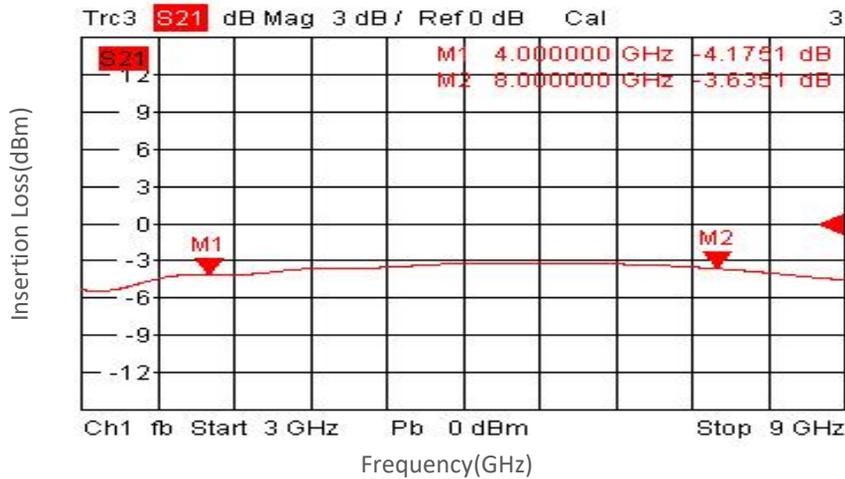
Output VSWR

1.13V-90°:

Phase vs Frequency



Insertion Loss vs Frequency



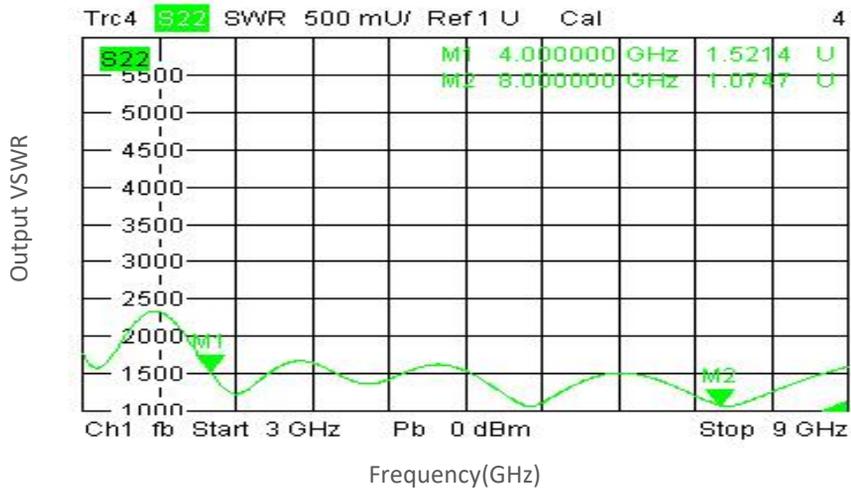
2.93V-180°:

Input VSWR vs Frequency

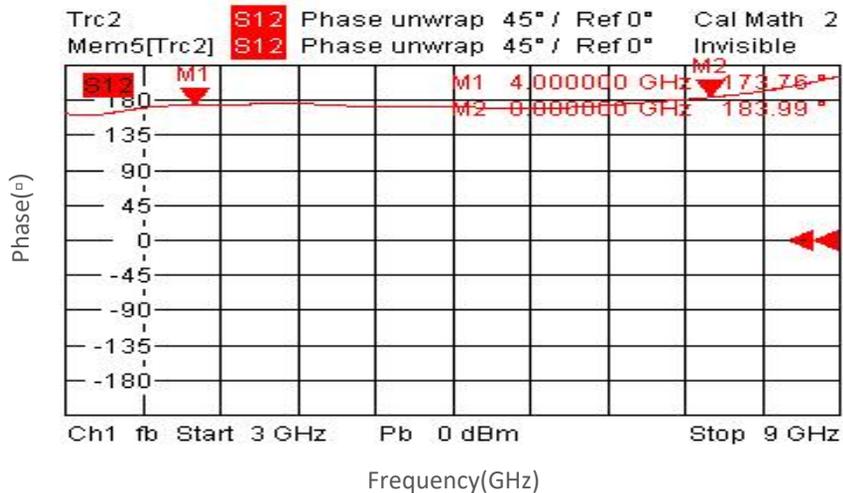
Input VSWR

2.93V-180°:

Output VSWR vs Frequency



Phase vs Frequency

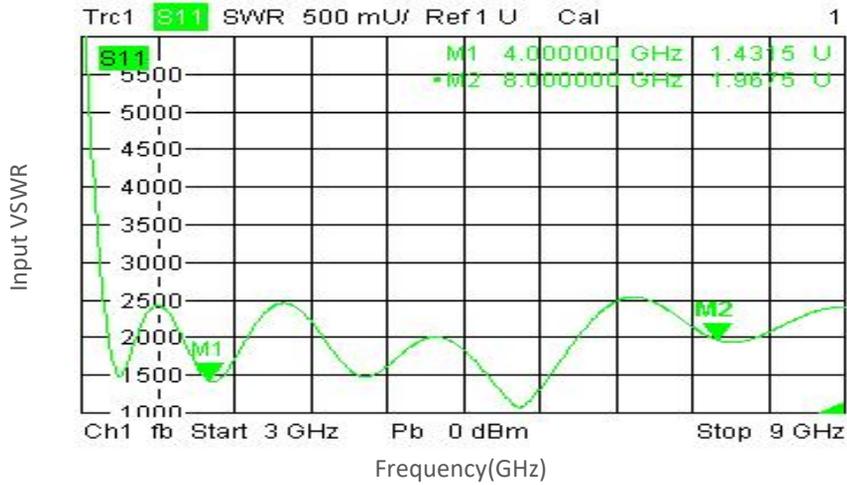


Insertion Loss vs Frequency

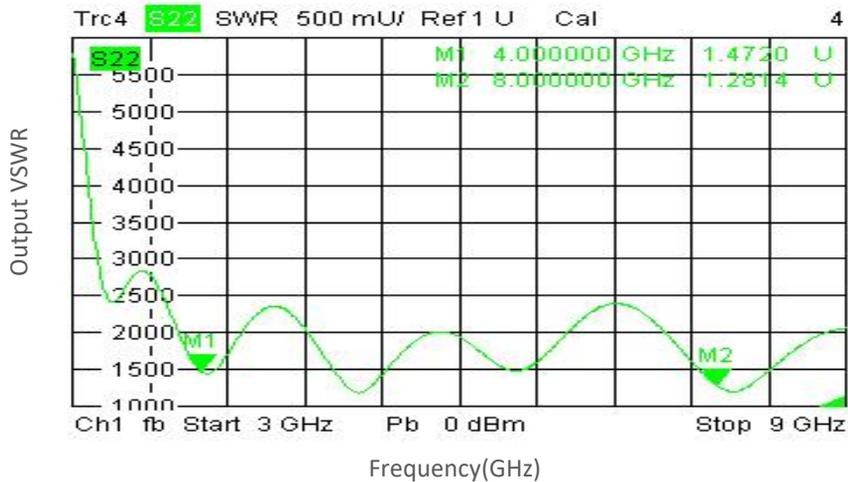
Insertion Loss(dBm)

8.23V-360°:

Input VSWR vs Frequency



Output VSWR vs Frequency



Phase vs Frequency

Phase(°)

8.23V-360°:

Insertion Loss vs Frequency

