

**Model: TLVP4G8G-360**
**Voltage Controlled Phase Shifter  
 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:**

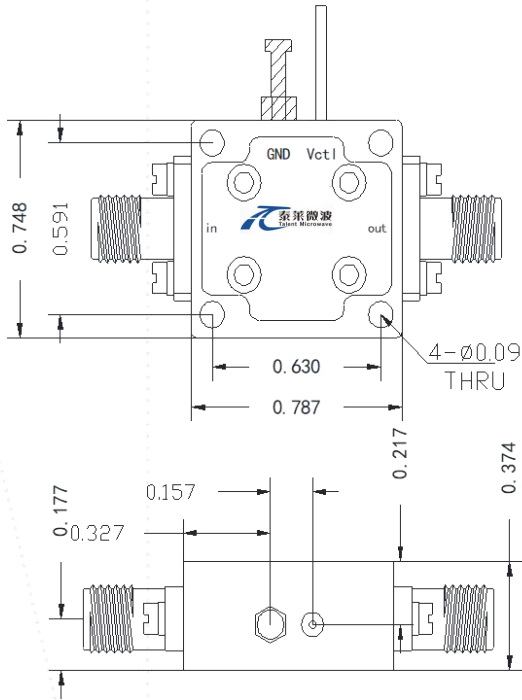
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
尺寸 Size	0.787*0.748*0.374	Inch
重量 Weight	/	g

**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



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	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			

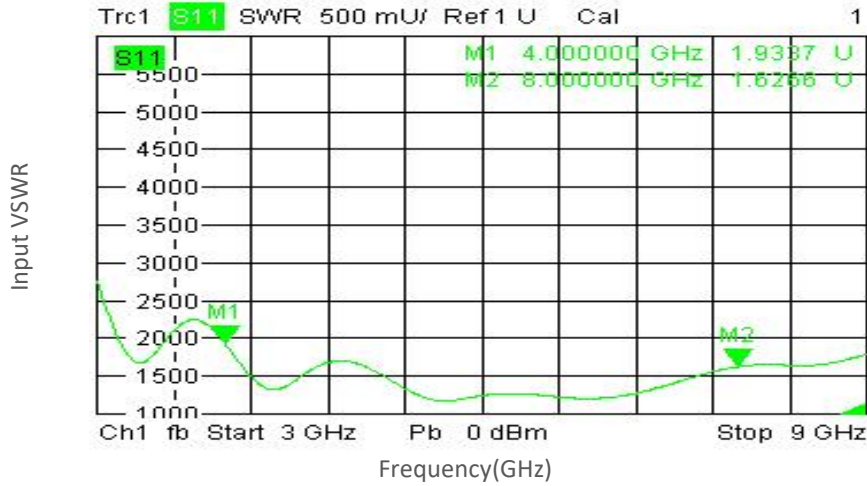
**订货信息 Ordering Information:**

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

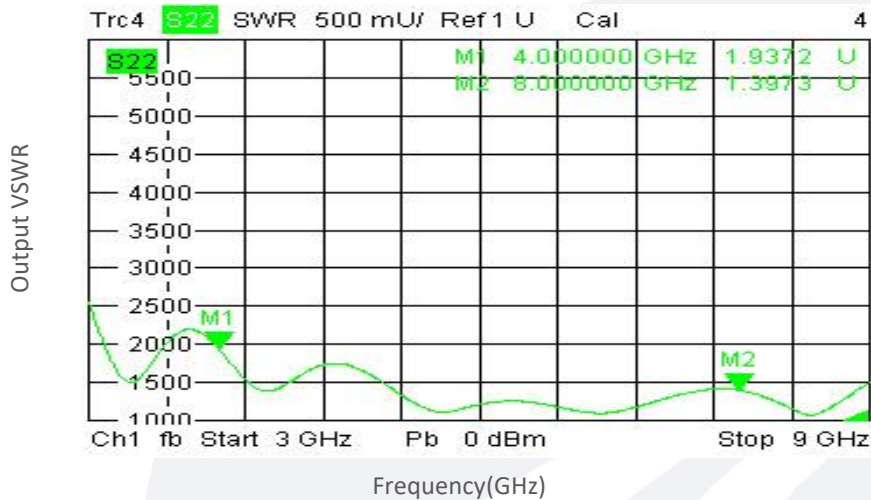
典型曲线 Typical Performance Data:

0V-0°:

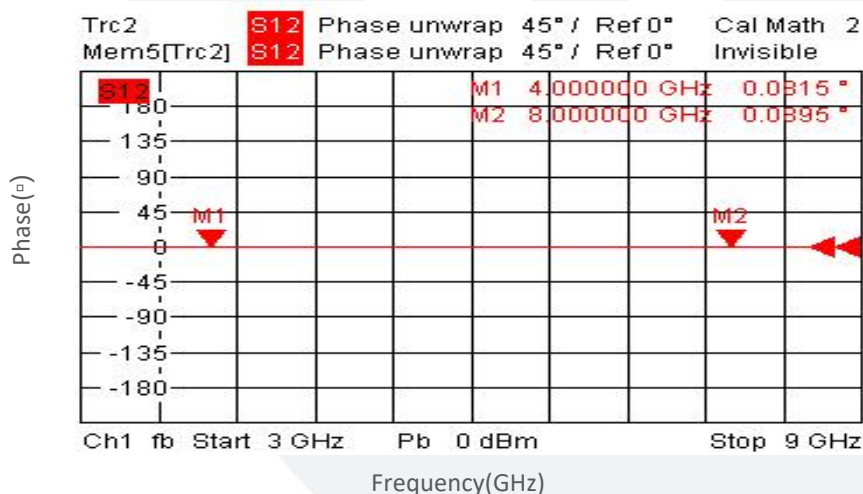
Input VSWR vs Frequency



Output VSWR vs Frequency



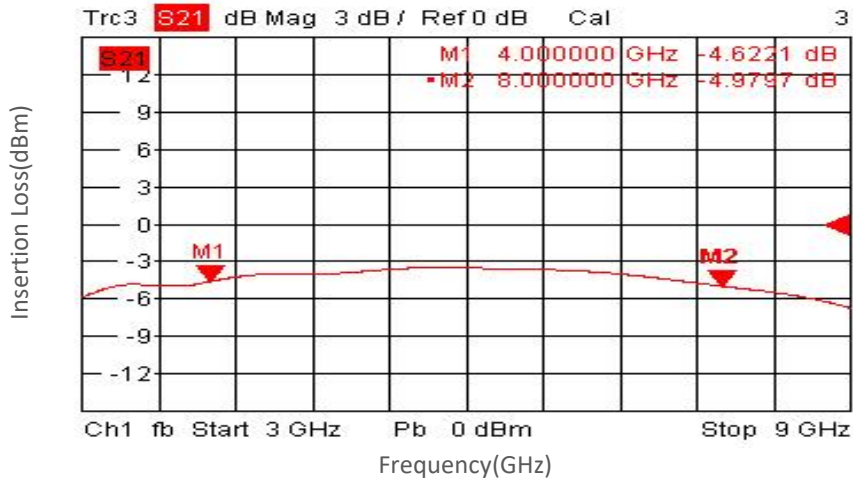
Phase vs Frequency



典型曲线 Typical Performance Data:

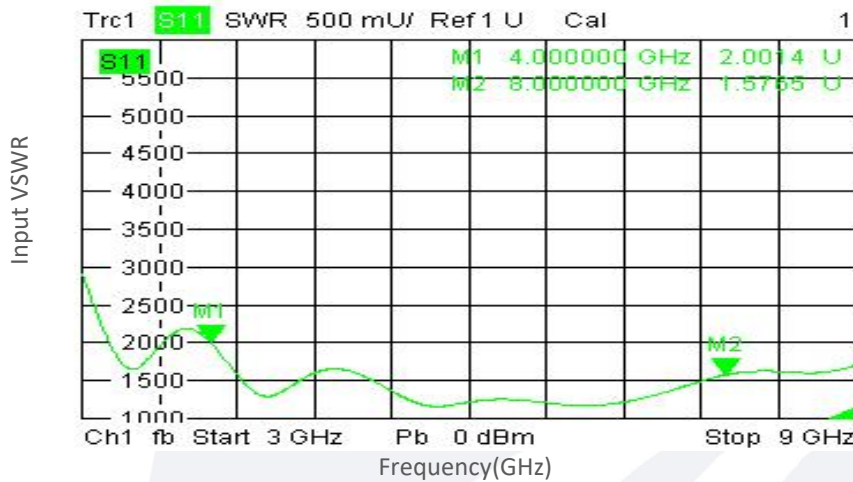
0V-0°:

Insertion Loss vs Frequency

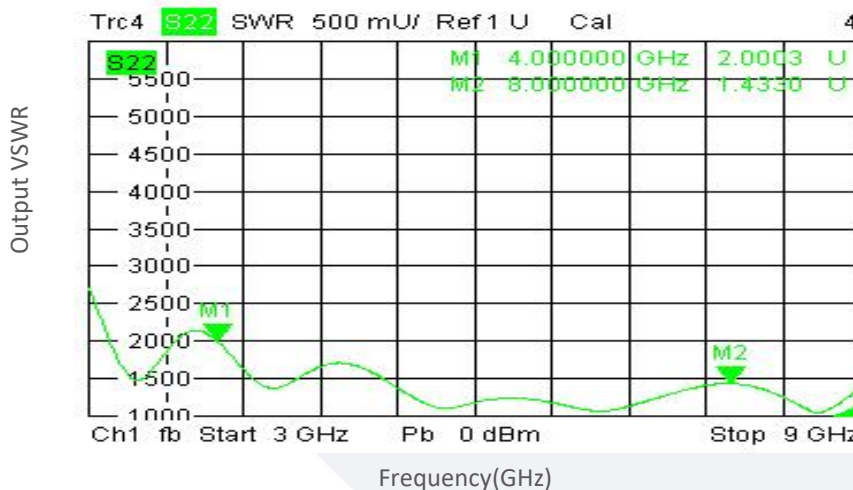


0.1V-12°:

Input VSWR vs Frequency



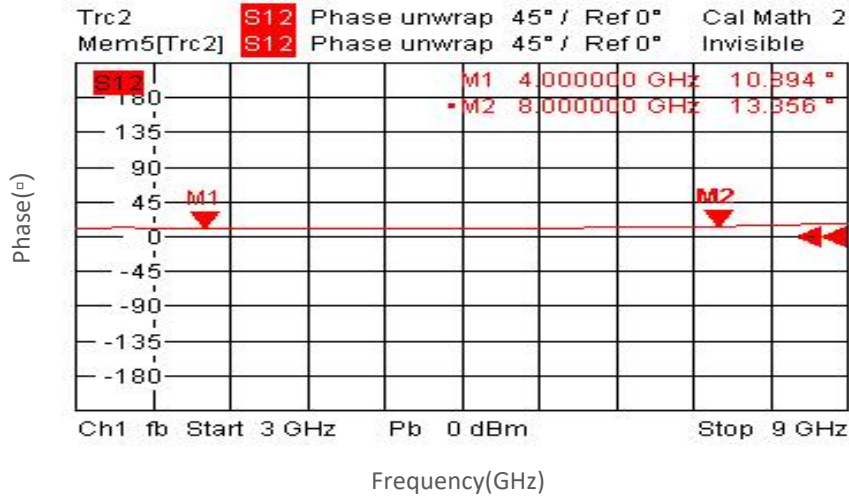
Output VSWR vs Frequency



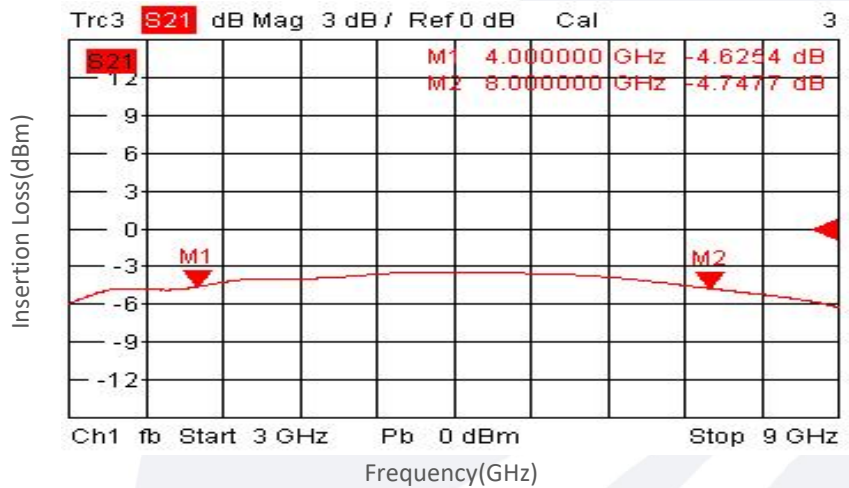
典型曲线 Typical Performance Data:

0.1V-12°:

Phase vs Frequency

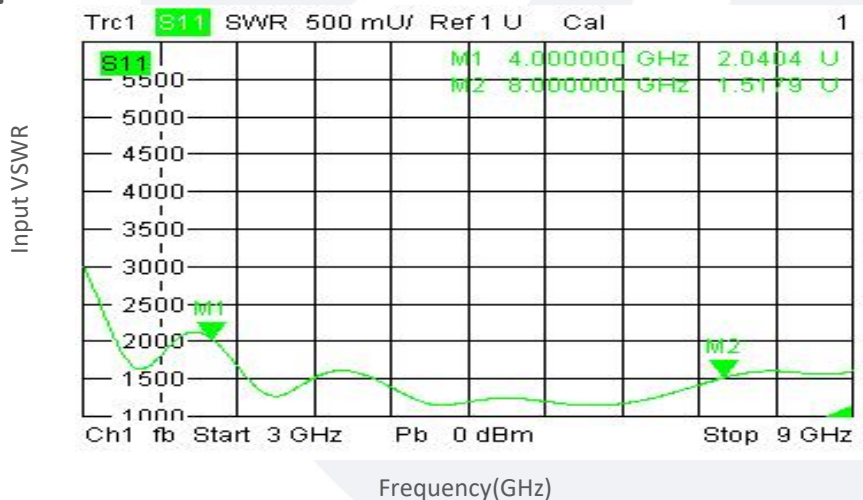


Insertion Loss vs Frequency



0.27V-24°:

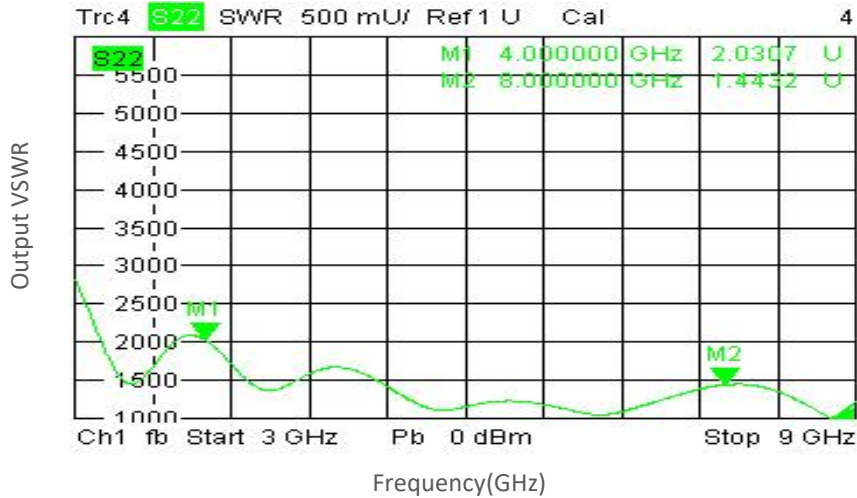
Input VSWR vs Frequency



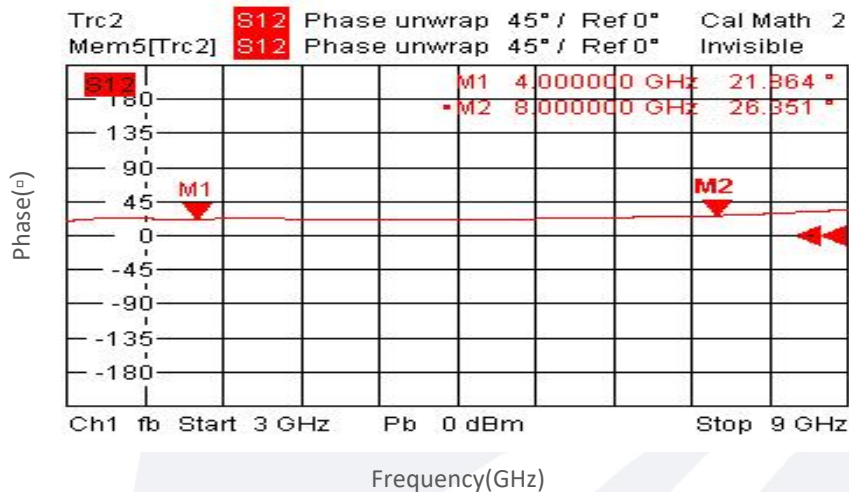
典型曲线 Typical Performance Data:

0.27V-24°:

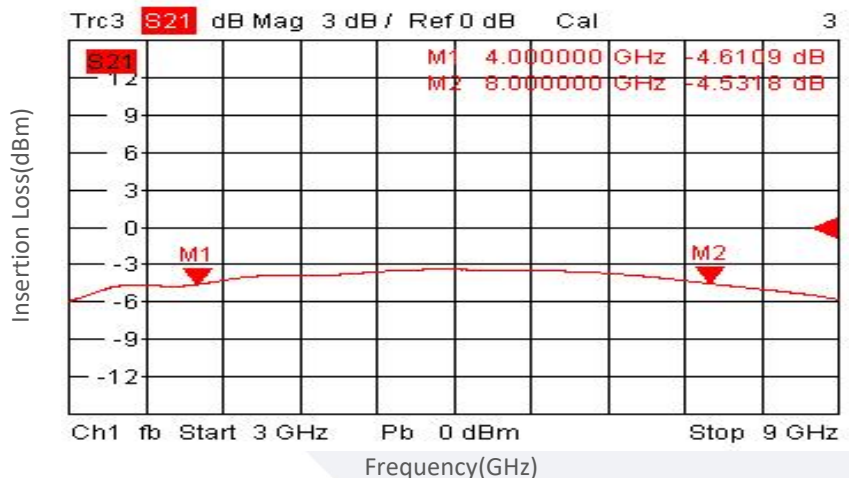
Output VSWR vs Frequency



Phase vs Frequency



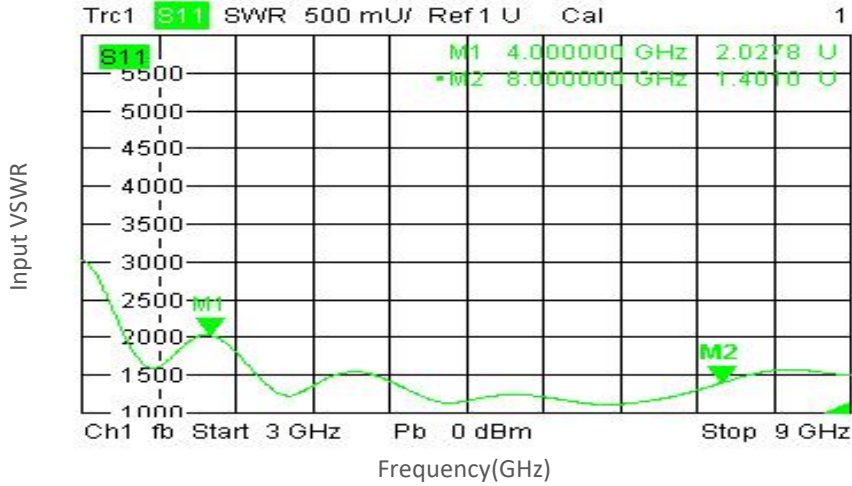
Insertion Loss vs Frequency



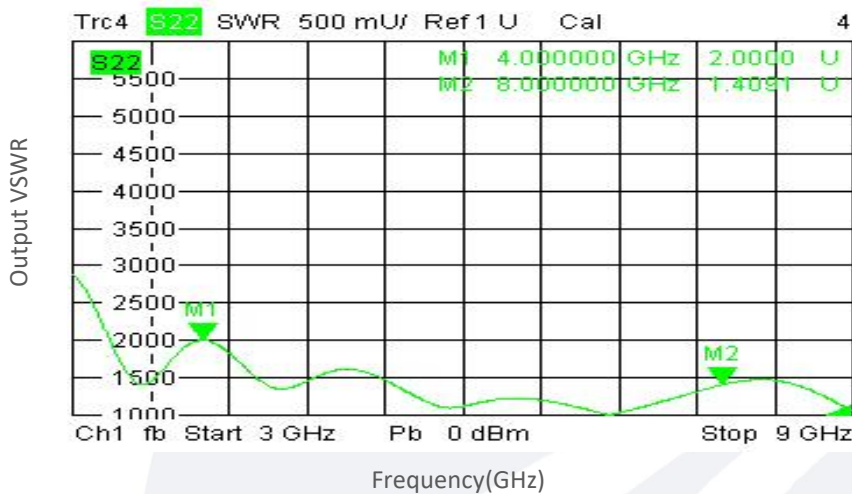
典型曲线 Typical Performance Data:

0.47V-45°:

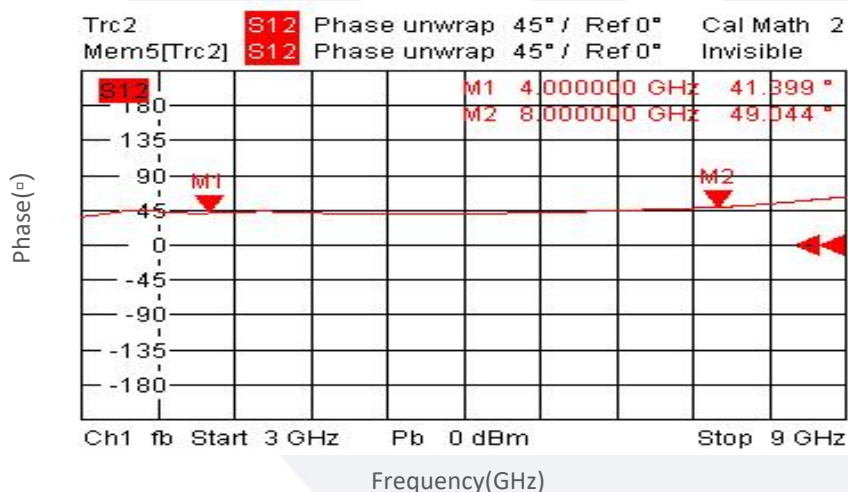
Input VSWR vs Frequency



Output VSWR vs Frequency



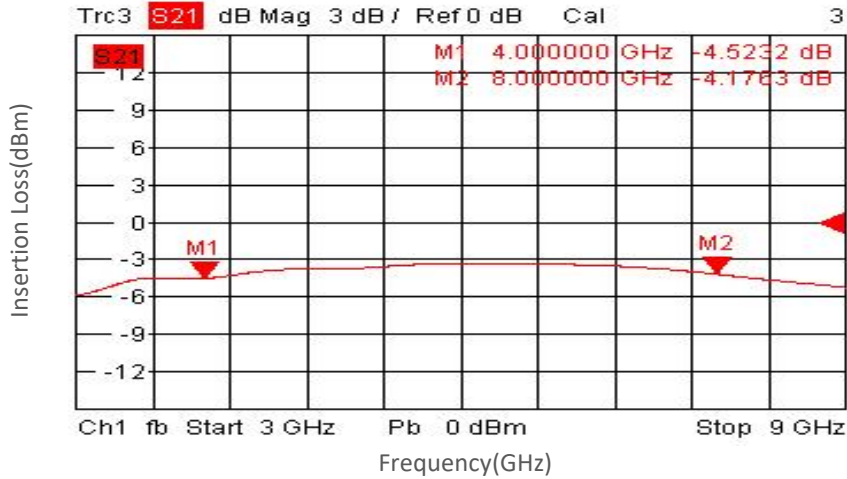
Phase vs Frequency



典型曲线 Typical Performance Data:

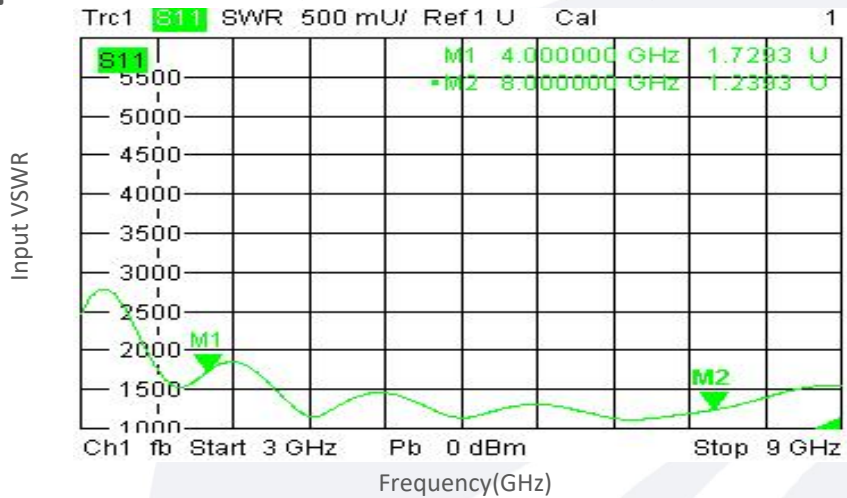
0.47V-45°:

Insertion Loss vs Frequency

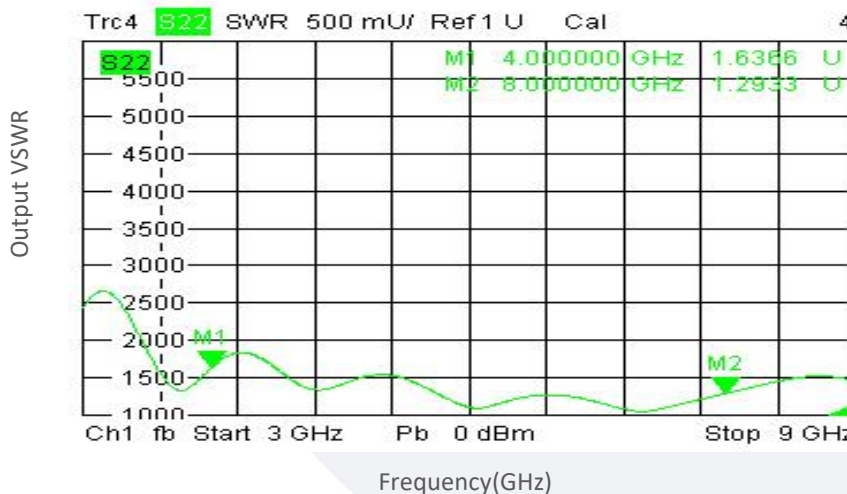


1.13V-90°:

Input VSWR vs Frequency



Output VSWR vs Frequency

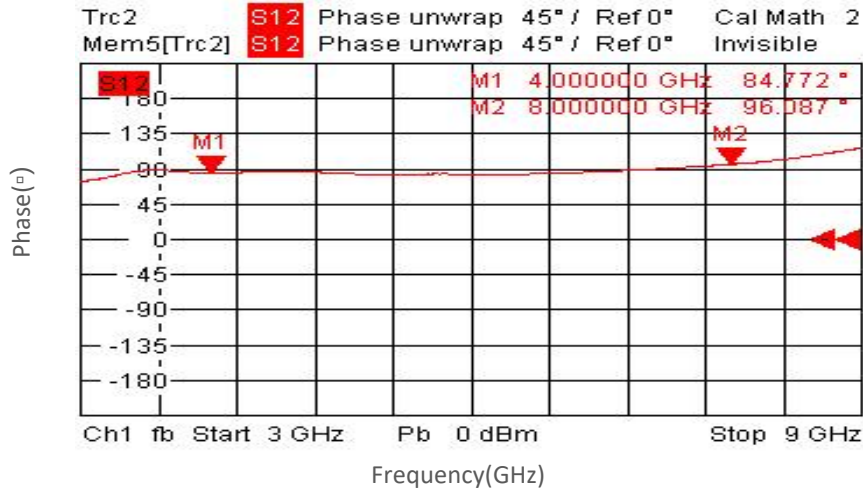




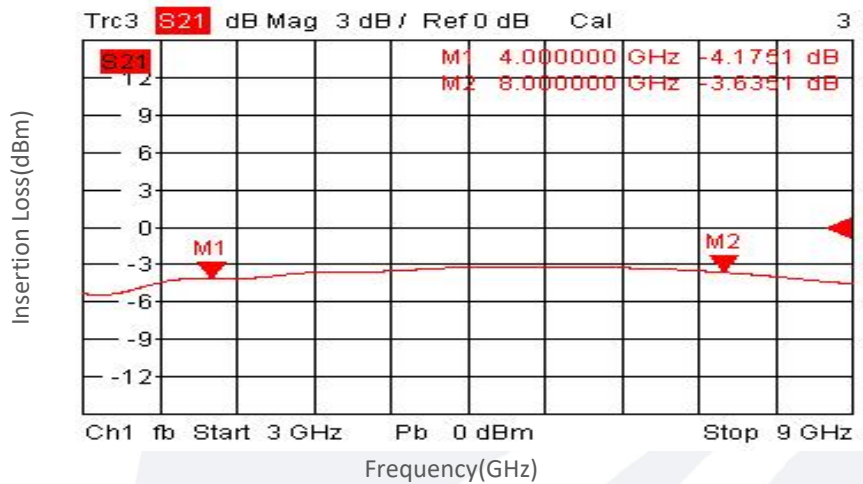
典型曲线 Typical Performance Data:

1.13V-90°:

Phase vs Frequency

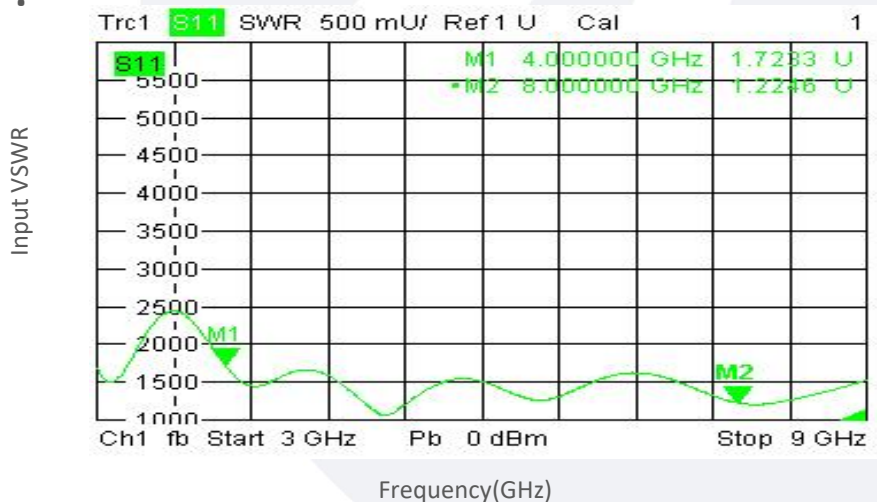


Insertion Loss vs Frequency



2.93V-180°:

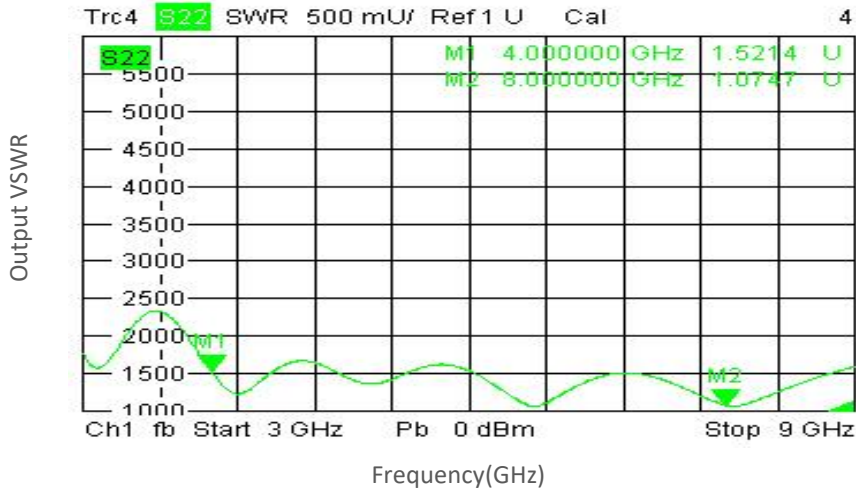
Input VSWR vs Frequency



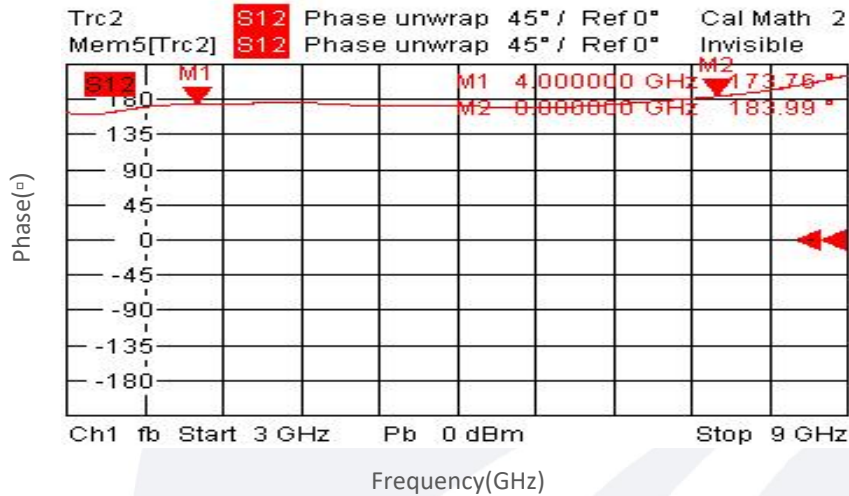
典型曲线 Typical Performance Data:

2.93V-180°:

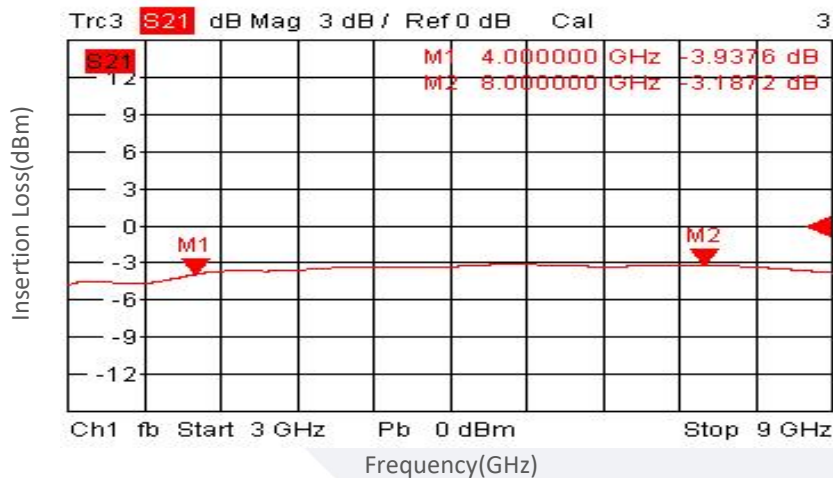
Output VSWR vs Frequency



Phase vs Frequency



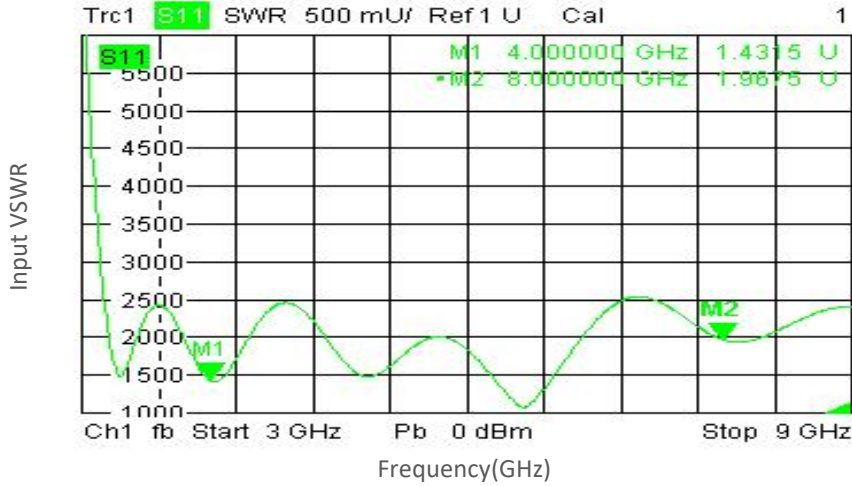
Insertion Loss vs Frequency



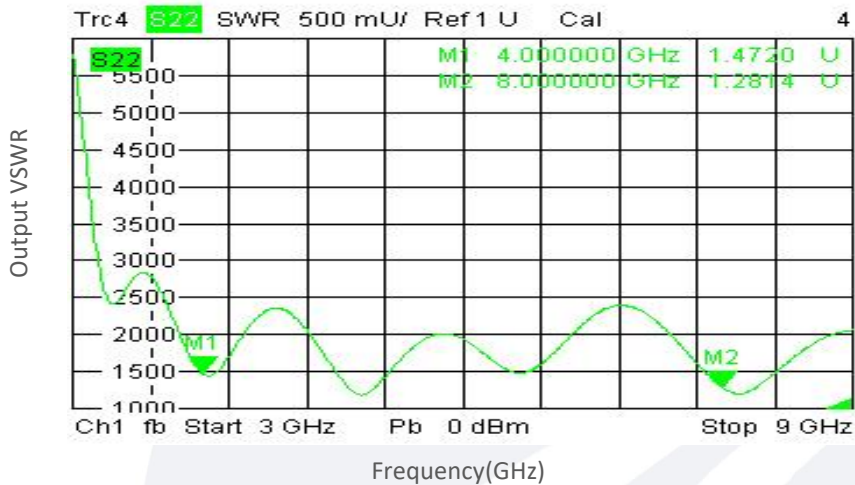
典型曲线 Typical Performance Data:

8.23V-360°:

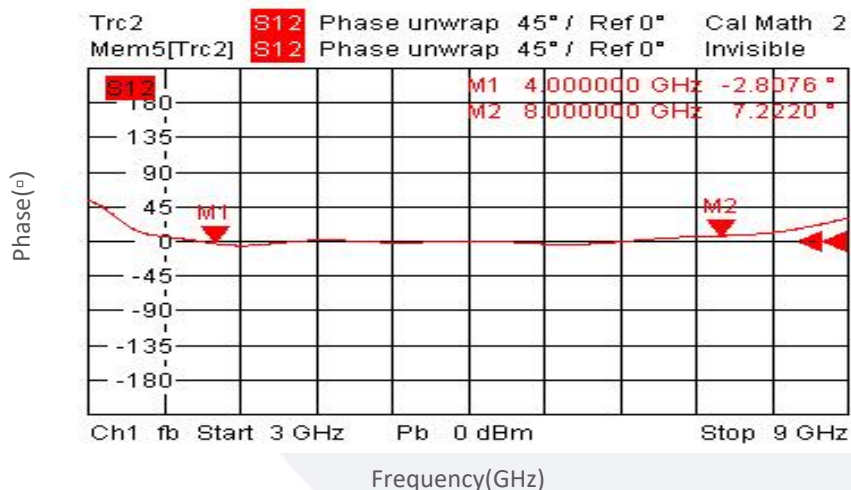
Input VSWR vs Frequency



Output VSWR vs Frequency



Phase vs Frequency



典型曲线 Typical Performance Data:

8.23V-360°: Insertion Loss vs Frequency

