泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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sales@talentmw.com
www.talentmw.com

Model:TLVP8G12G-360

Voltage Controlled Phase Shifter 8-12GHz ,SMA Female

Feature:

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

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range		8-12		GHz
Phase Range		360		°
Insertion Loss		6		dB
Insertion Loss Temperature Coefficient		0.003		dB/ °C
Input Ruturn Loss		10		dB
Output Ruturn Loss		10		dB
Control Voltage Range	0	13		V
Control Current		5		mA
Phase Flatness		±15		°
Input Power for 0.1 dB Compression		25		dBm
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
Size	20*14*9.5	mm
Weight	/	g

Absolute Maximum Ratings:

Parameter	Value
Control Voltage Range	+15V
RF Input Power No damage	+25dBm
ESD sensitivity (HBm)	Class 0, passed 150V

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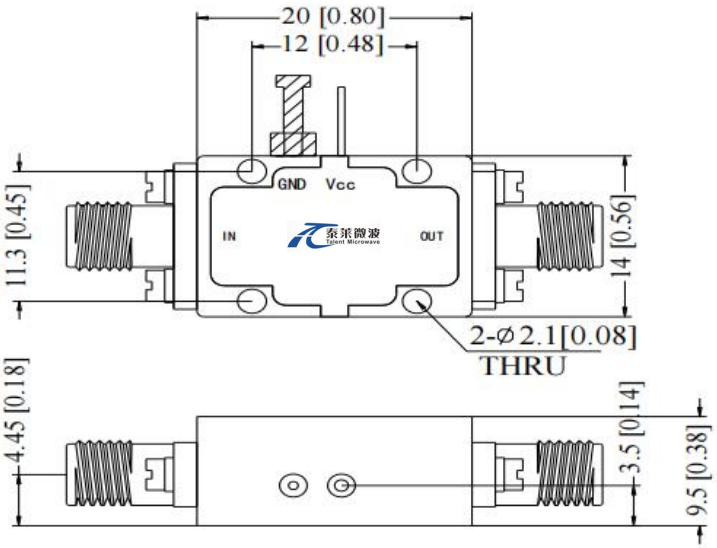
Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	℃
Non-operating Temperature	-55		+125	℃
Relative humidity		95		%
Altitude	30,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLVP8G18G-360	Voltage Controlled Phase Shifter ,8-18GHz,SMA Female	Rev.1.1

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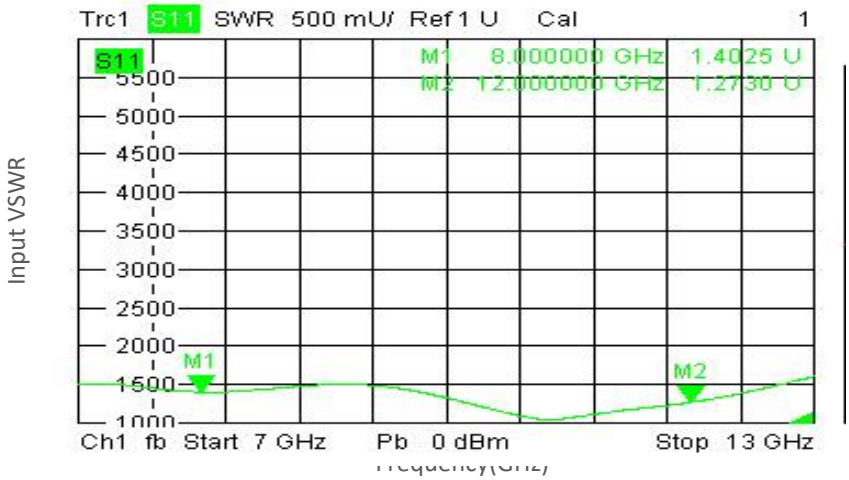
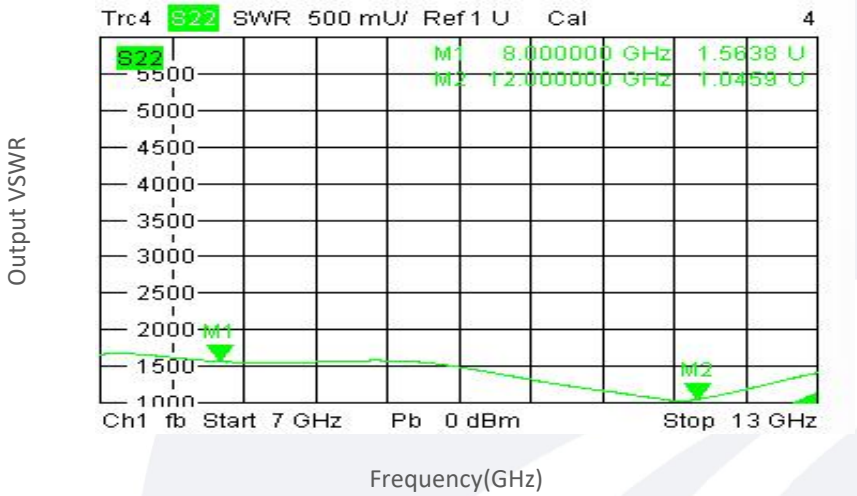
Typical Performance Data:

0V-0°:

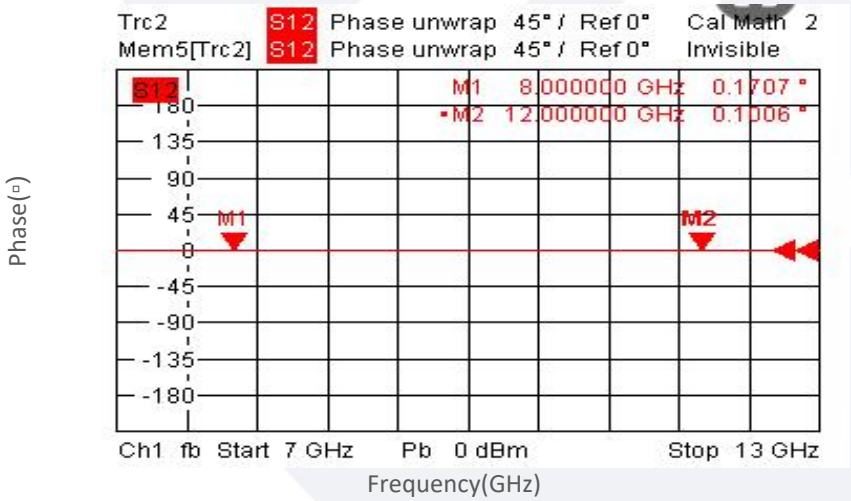
Input VSWR vs Frequency



Output VSWR vs Frequency



Phase vs Frequency



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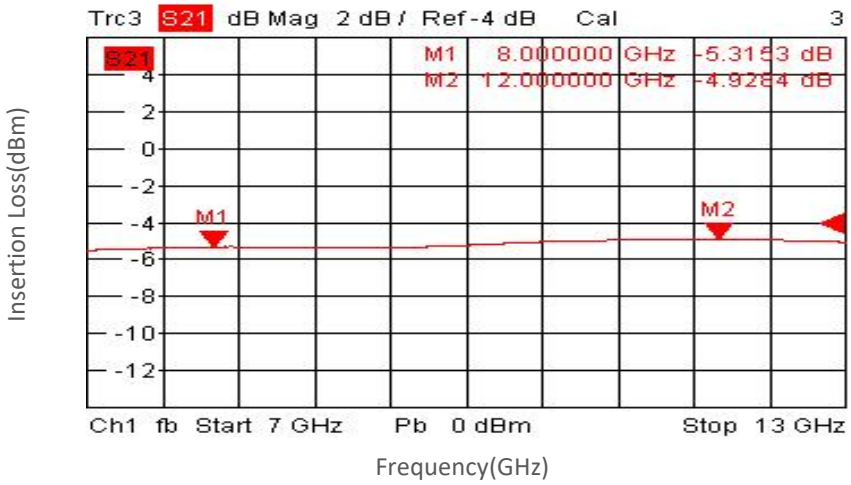
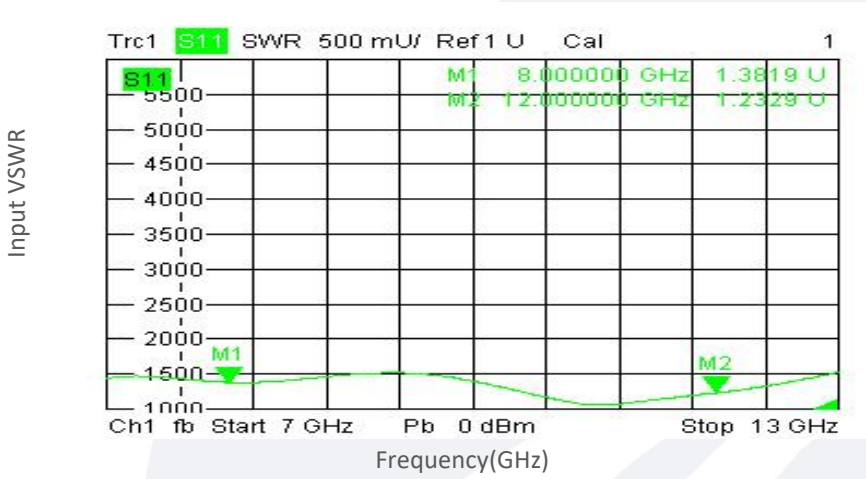
0V-0°:

Insertion Loss vs Frequency

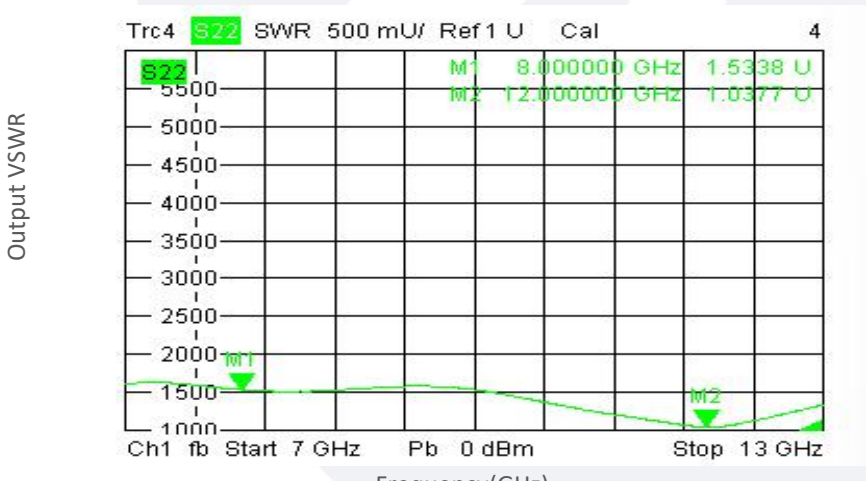


0.12V-12°:

Input VSWR vs Frequency



Output VSWR vs Frequency



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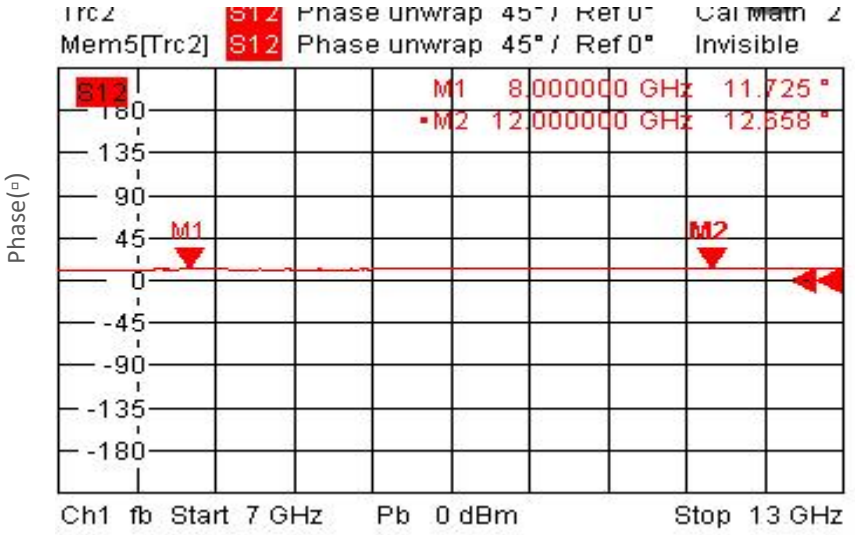
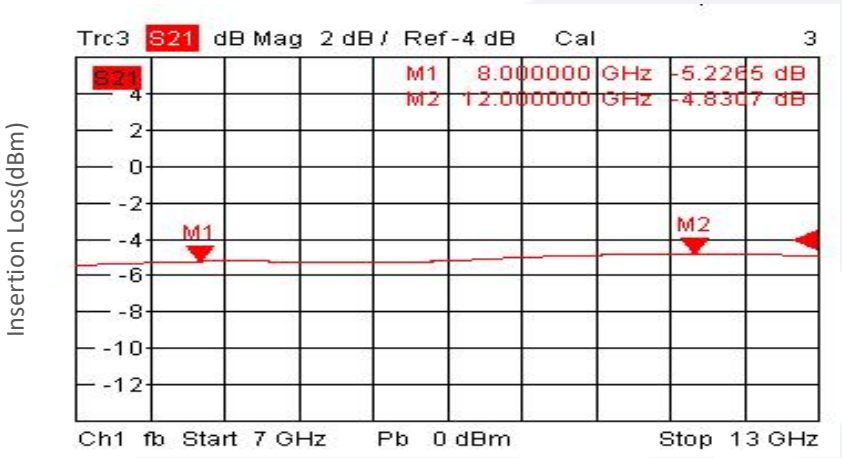
Typical Performance Data:

0.12V-12°:

Phase vs Frequency



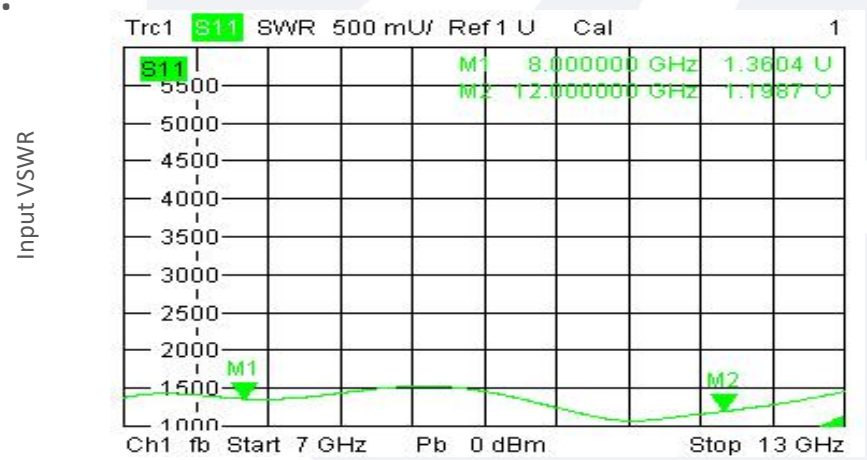
Insertion Loss vs Frequency



Frequency(GHz)

0.25V-24°:

Input VSWR vs Frequency



Frequency(GHz)

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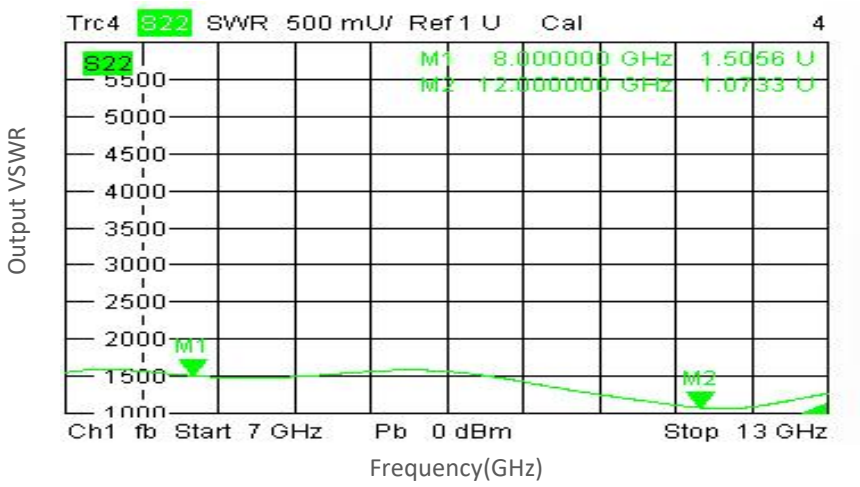
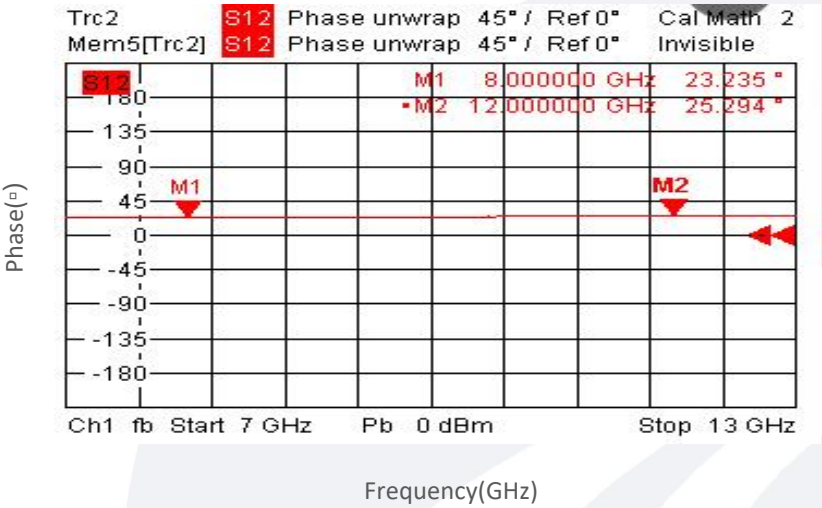
Typical Performance Data:

0.25V-24°:

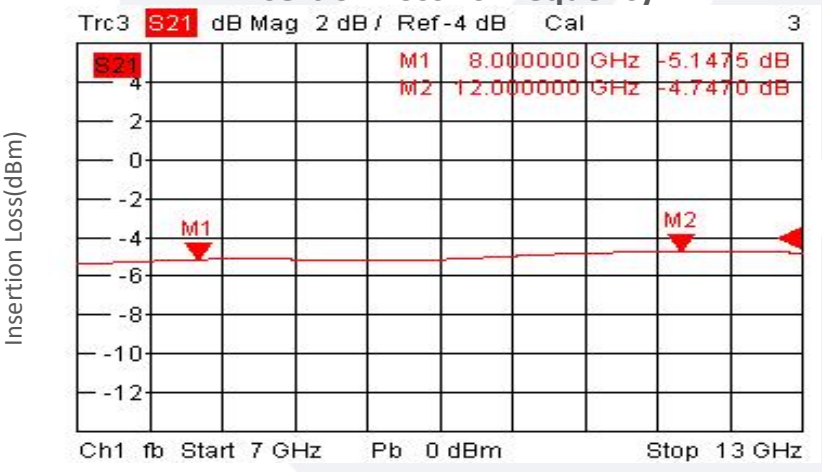
Output VSWR vs Frequency



Phase vs Frequency



Insertion Loss vs Frequency



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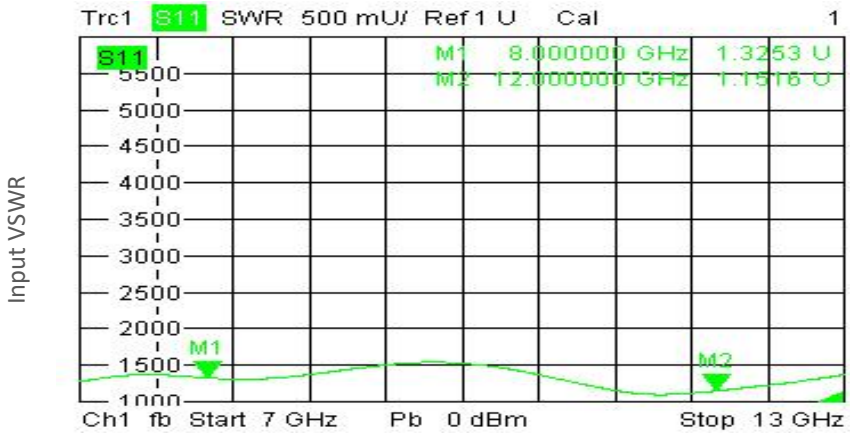
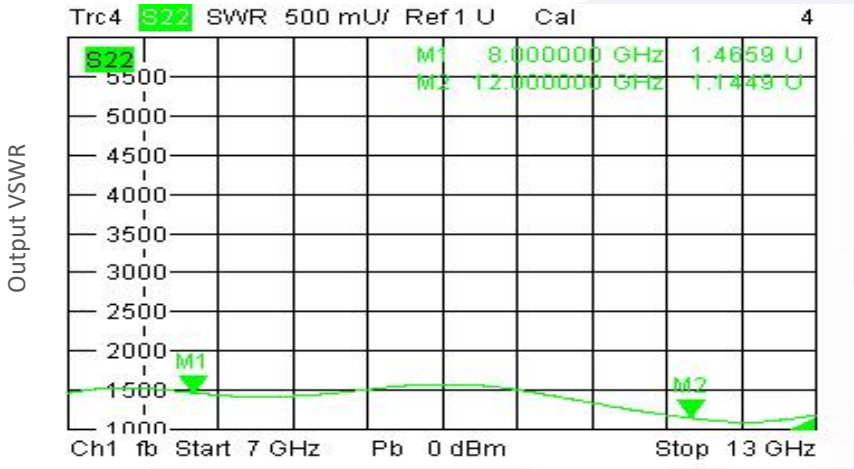
Typical Performance Data:

0.51V-45°:

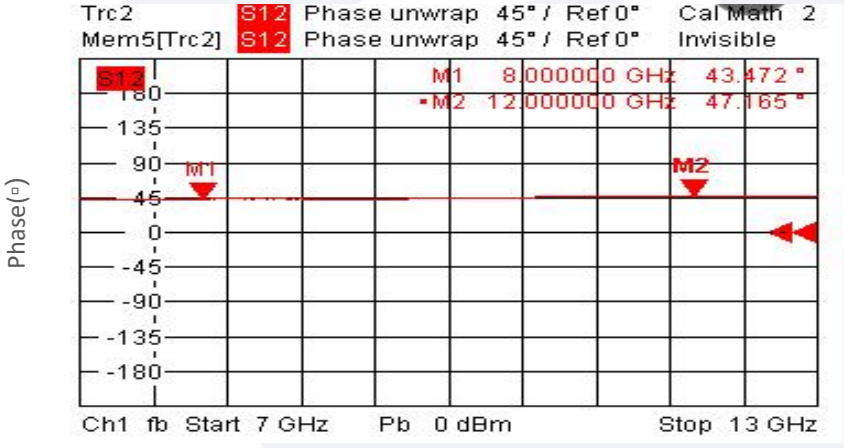
Input VSWR vs Frequency



Output VSWR vs Frequency



Phase vs Frequency



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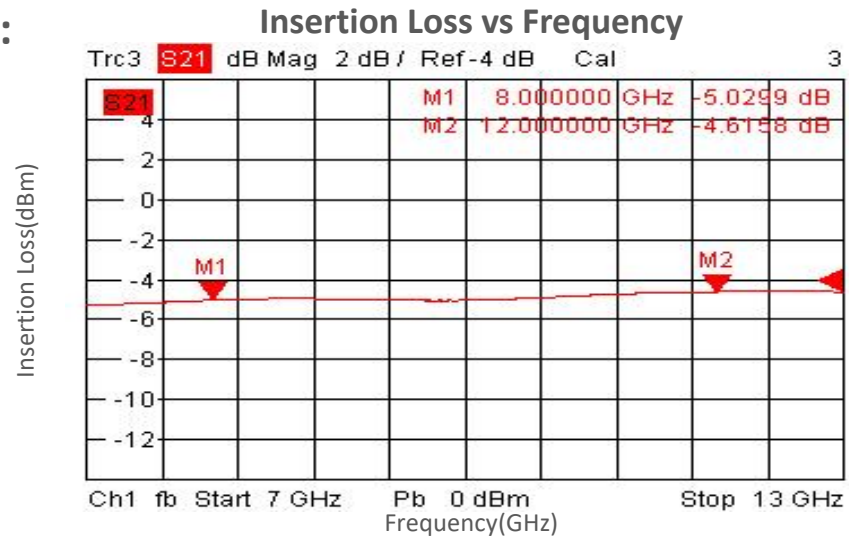
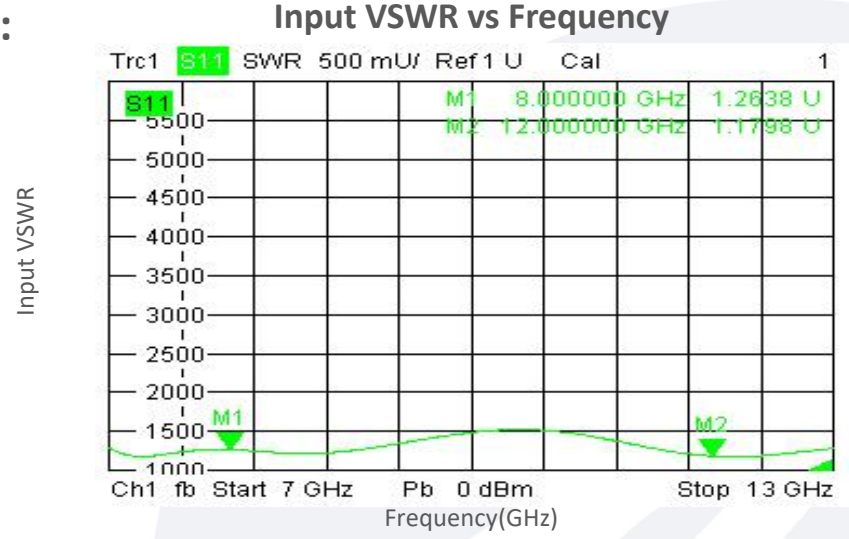
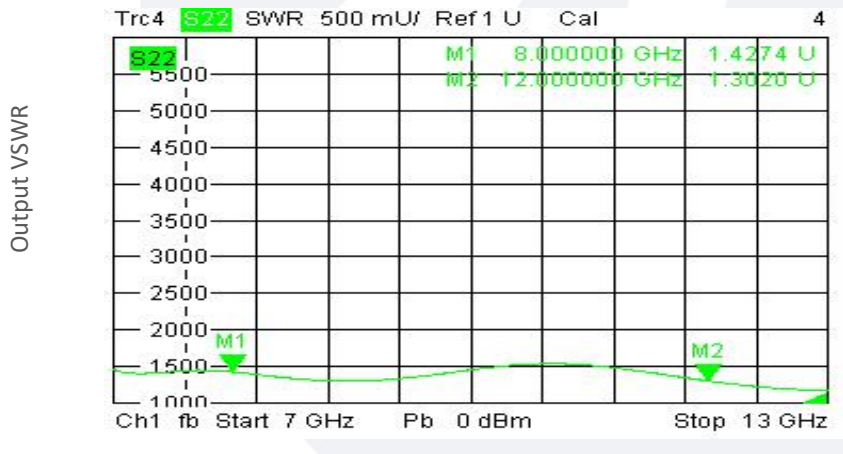
0.52V-45°:



1.22V-90°:





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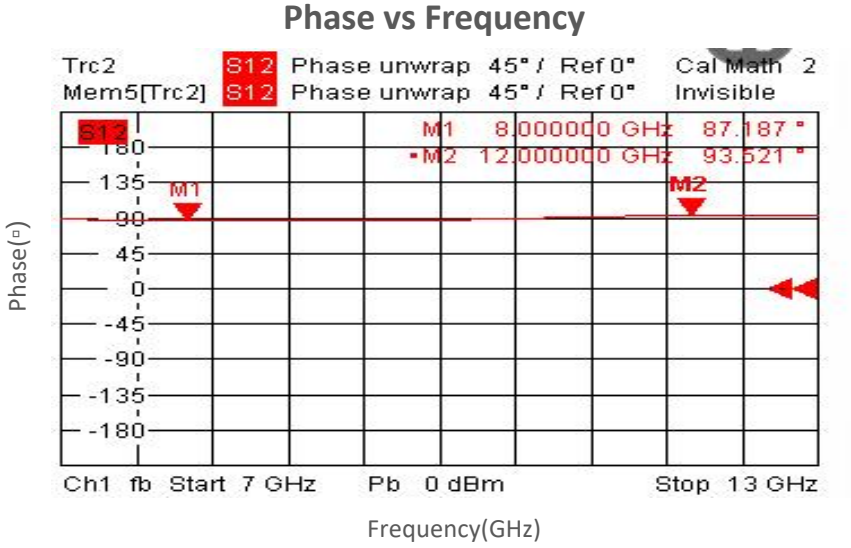
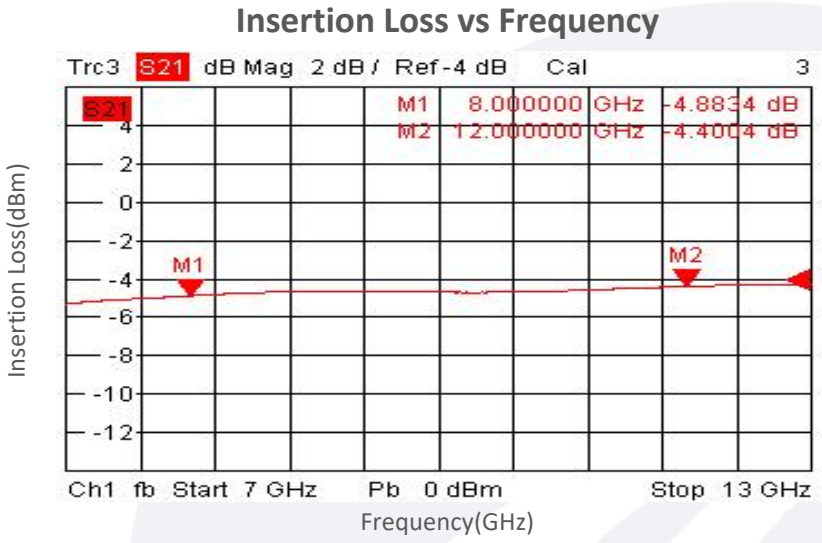
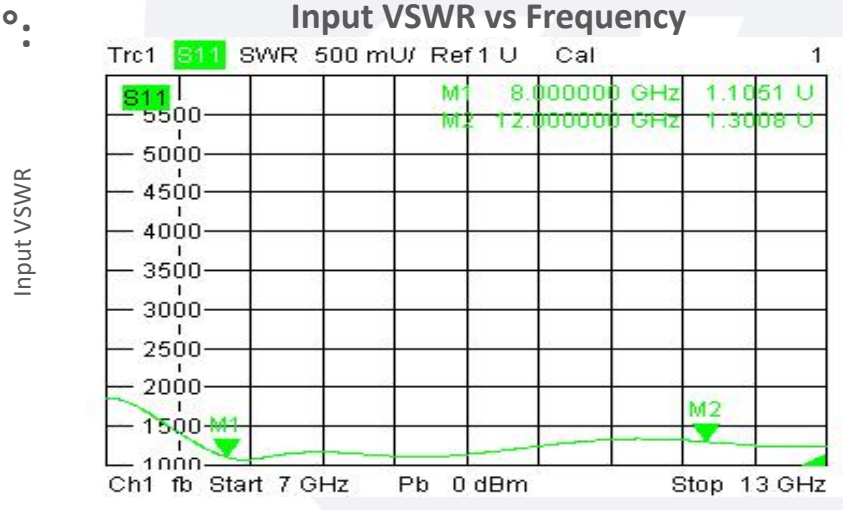
1.26V-90°:





3.15V-180°:



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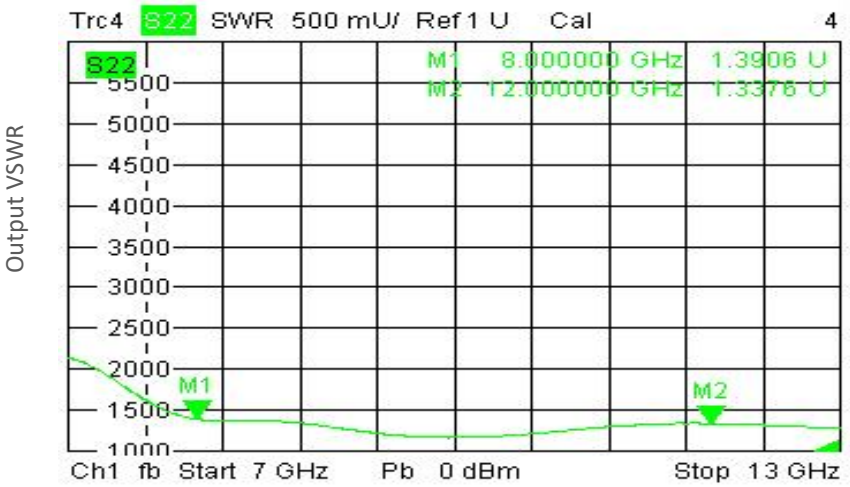
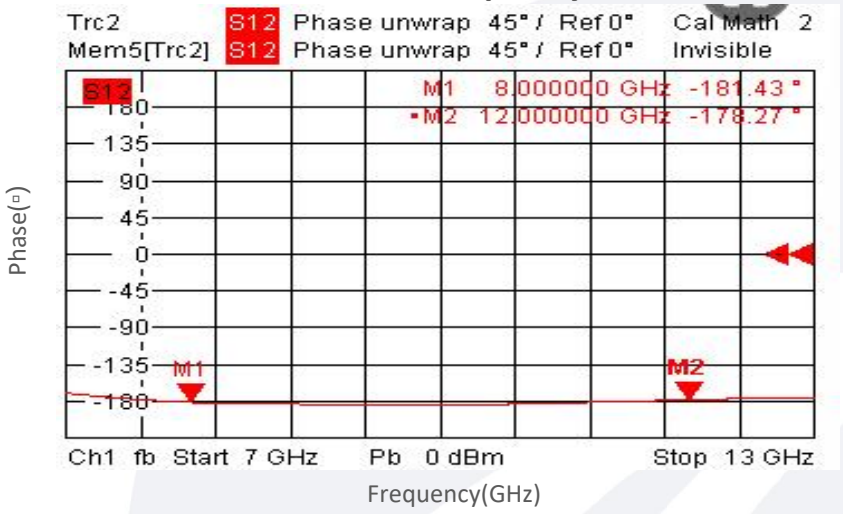
Typical Performance Data:

3.15V-180°:

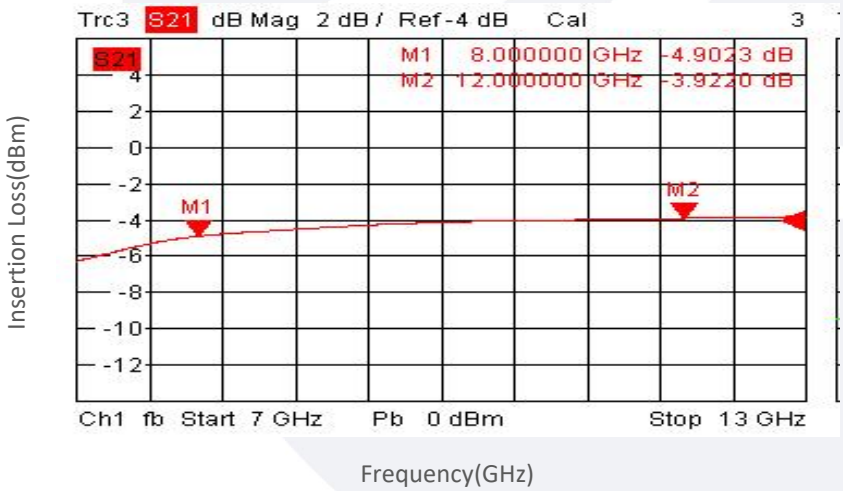
Output VSWR vs Frequency



Phase vs Frequency



Insertion Loss vs Frequency



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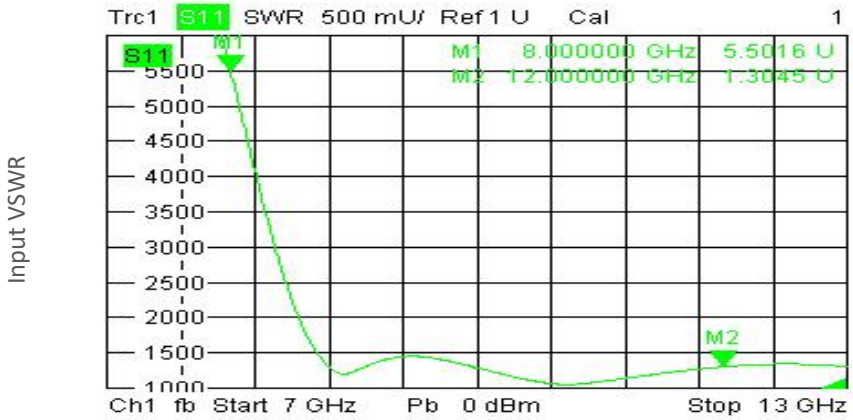
Typical Performance Data:

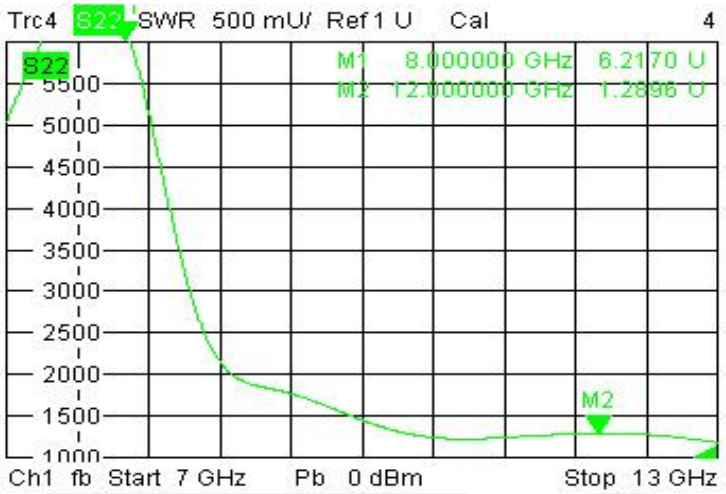
8.65V-360°:

Input VSWR vs Frequency



Input VSWR

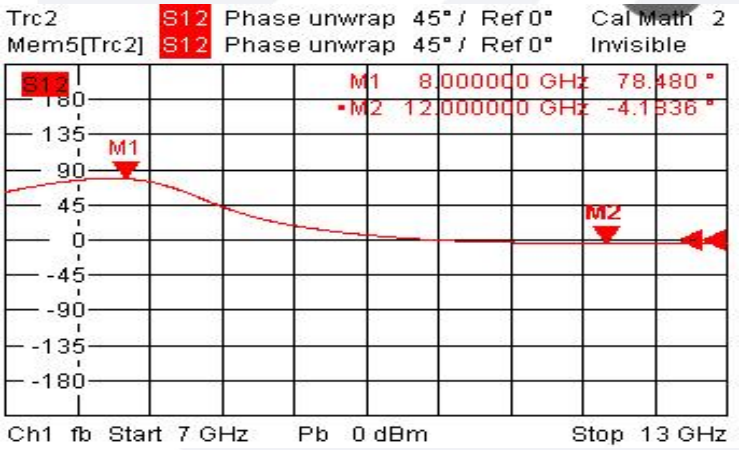
Frequency(GHz)



Output VSWR

Frequency(GHz)

Phase vs Frequency



Phase(°)

Frequency(GHz)

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