泰莱微波 Talent Microwave
Suzhou Talent Microwave,Inc
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Voltage Controlled Phase Shifter

0-5V/0-40° /5.5-5.7GHz

Model: TLVP5.5G5.7G-40-5

TLVP5.5G5.7G-40-5 is a coaxial voltage-variable shifter providing precise 40˚ phase control from 5.5-5.7 GHz. This model achieves a low insertion loss 4.5dB and a good VSWR 2.5:1. It features a control bandwidth from 5.5 to 5.7G and a control voltage range of 0 to +5V. The unit is housed in a compact aluminum alloy case with SMA connectors and a built-in base mounting bracket.

Features:

- Frequency range: 5.5-5.7GHz
- High Phase Shift Accuracy
- High Phase Shift Range
- Single Positive Control Voltage

Applications:

- Communications antennas
- Phased array radars

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	5.5		5.7	GHz
移相范围 Phase Range		40		°
插损 Insertion Loss		4.5		dB
驻波 Output VSWR		2.5		:1
供电电压 Power Voltage		+5		V
控制电压 Control Voltage Range	0		5	V
控制电流 Control Current		100		uA
相位平坦度 Phase Flatness		±5		°
移相切换时间 Switching Time		300		ns
阻抗 Impedance		50		Ohms

绝对最大值 Absolute Maximum Ratings :

描述 Description	参数 Parameter	单位 Units
控制电压 Control Voltage	+5	V
射频输入功率 RF Input Power	20	dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V	

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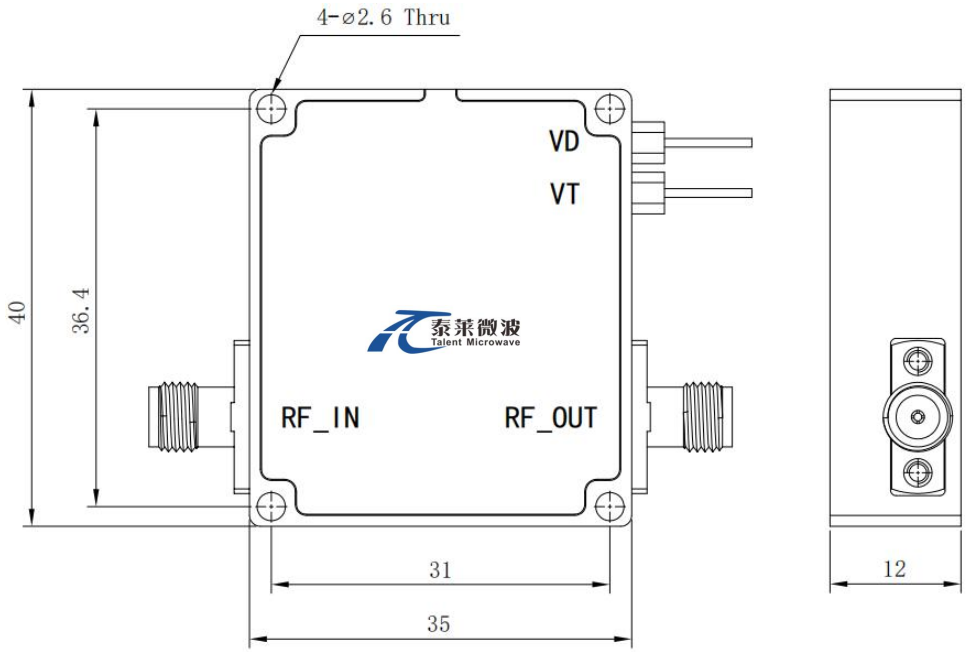
环境和机械特性 Envrionmental And Physical Characteristics:

描述 Description	参数 Parameter	单位 Units
操作温度 Operating Temerature	-45 To +85	℃
存储温度 Storage Temerature	-55 to +125	℃
材质 Material	Al	
表面处理 Finish	Gold Plated	
输入/输出接口 Input /Output Connector	SMA Female	

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLVP5.5G5.7G-40-5	Voltage Controlled Phase Shifter , 5.5-5.7GHz, SMA	Rev.1.0

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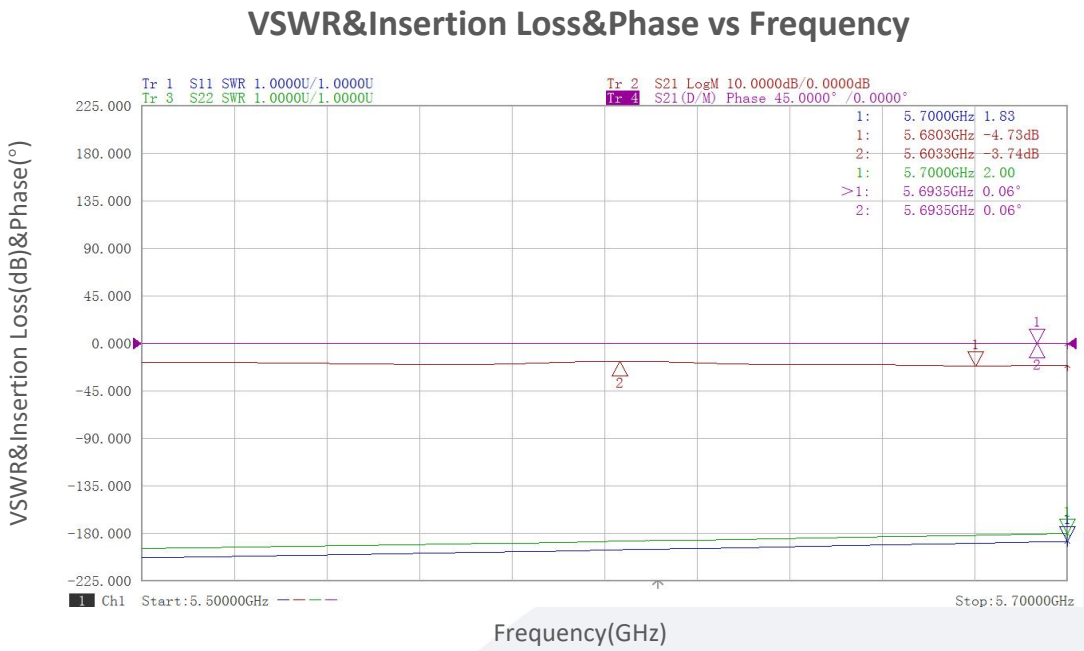
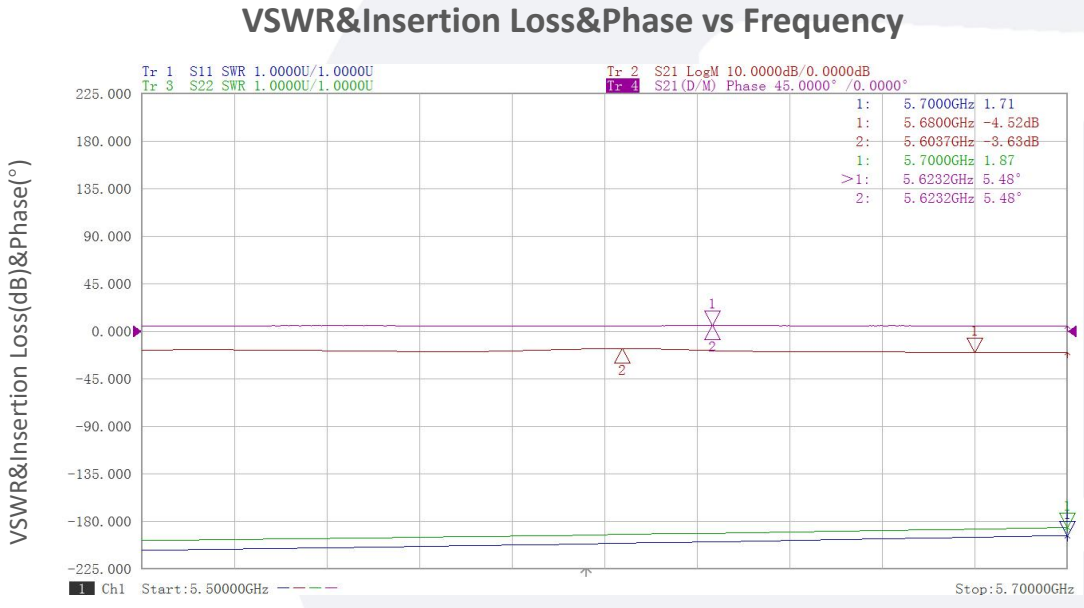
典型曲线 Typical Performance Data:

0V:



0.5V:



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.

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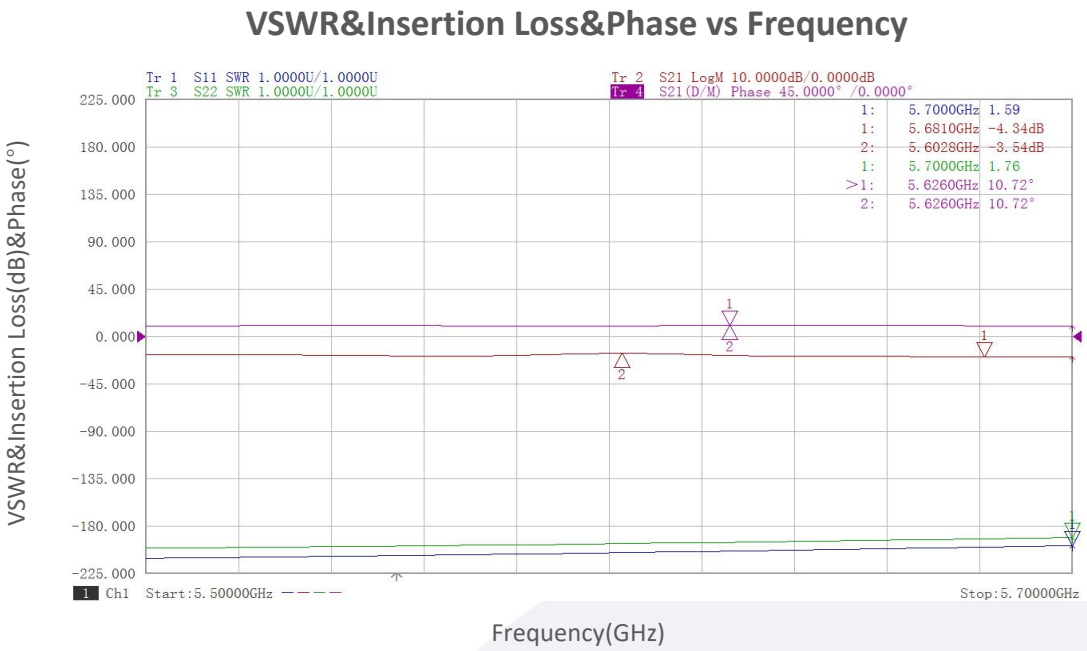
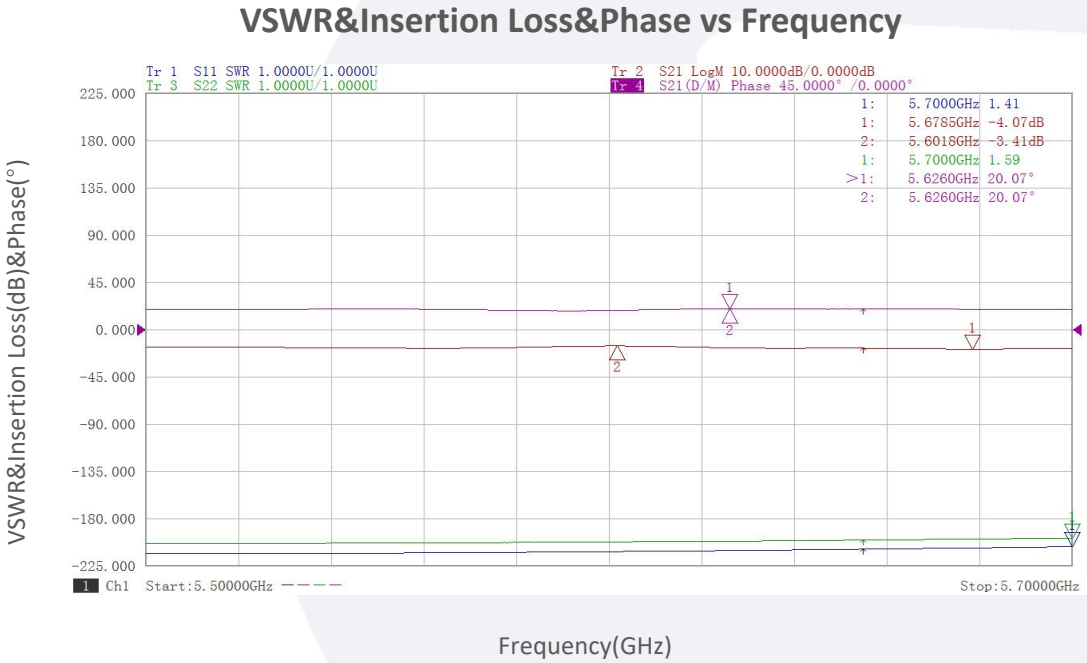
典型曲线 Typical Performance Data:

1V:



2V:



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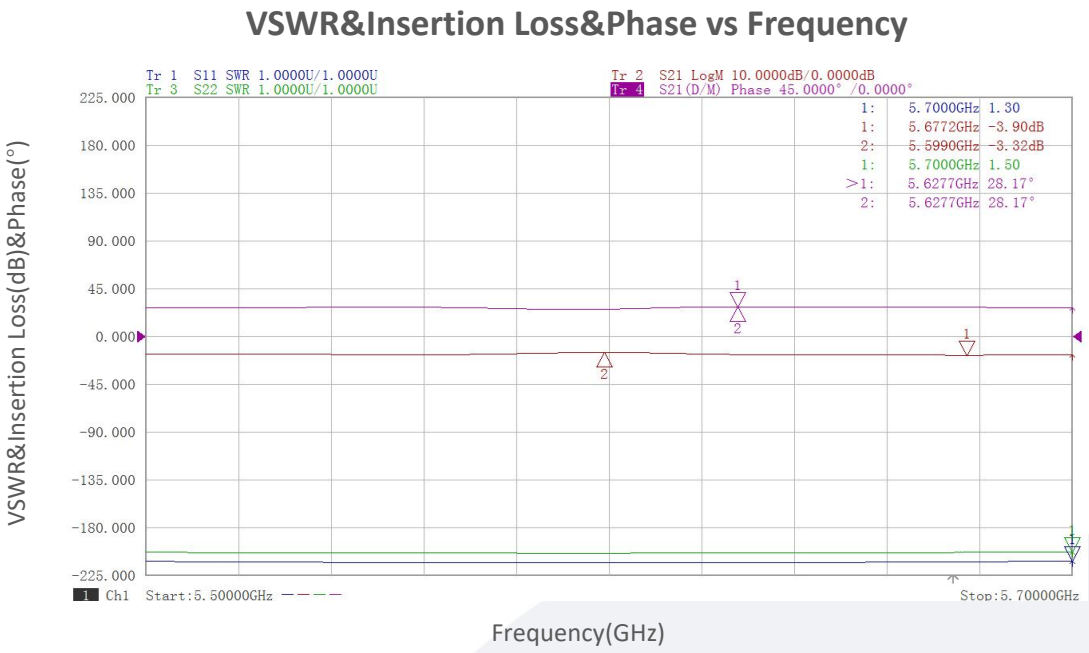
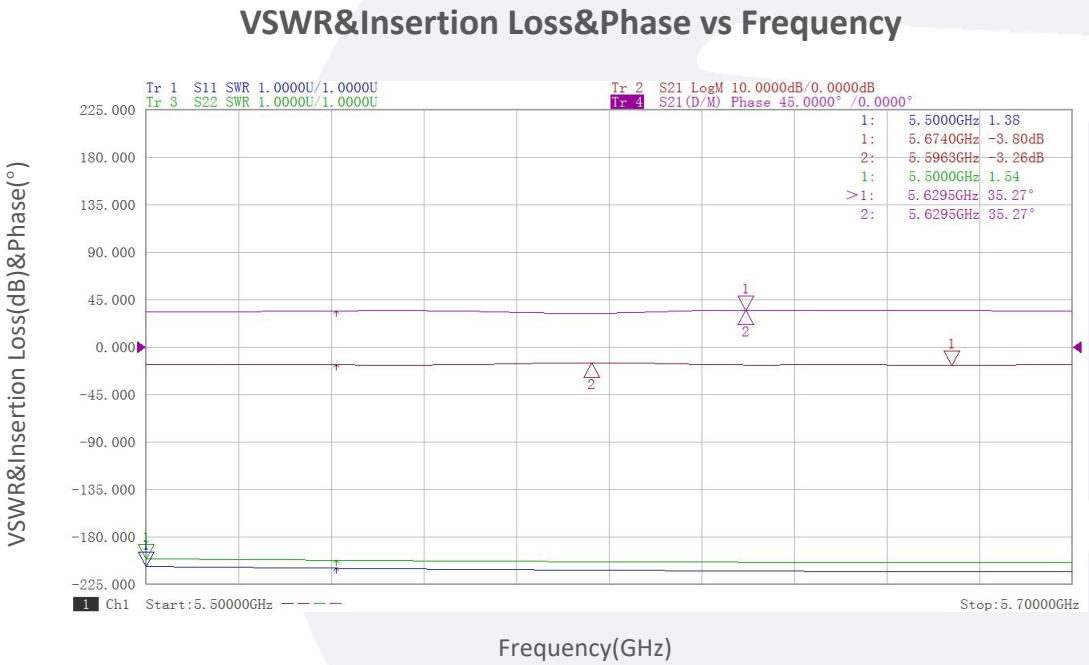
典型曲线 Typical Performance Data:

3V:



4V:



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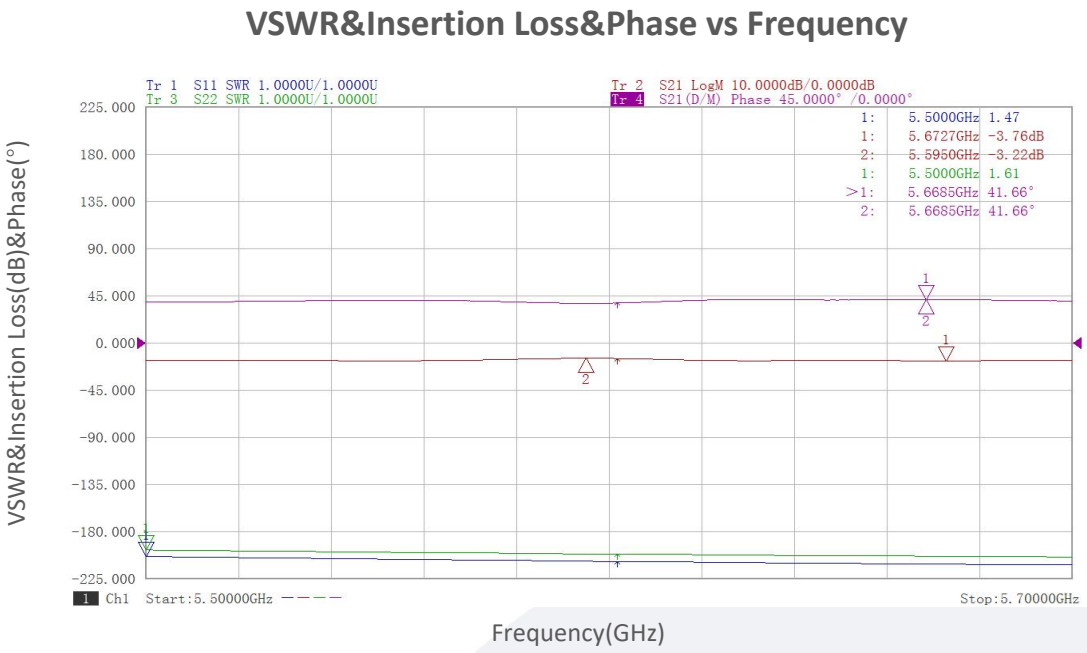
典型曲线 Typical Performance Data:

5V:



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