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

Voltage Controlled Phase Shifter

0-5V/0-30° /5.5-5.7GHz

Model: TLVP5.5G5.7G-30-5

TLVP5.5G5.7G-30-5 is a coaxial voltage-variable shifter providing precise 30˚ 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

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	5.5		5.7	GHz
Phase Range		30		°
Insertion Loss		4.5		dB
Output VSWR		2.5		:1
Power Voltage		+5		V
Control Voltage Range	0		5	V
Control Current		100		uA
Phase Flatness		±5		°
Switching Time		300		ns
Impedance		50		Ohms

Absolute Maximum Ratings :

Description	Parameter	Units
Control Voltage	+5	V
RF Input Power	20	dBm
ESD sensitivity (HBm)	Class 0, passed 150V	

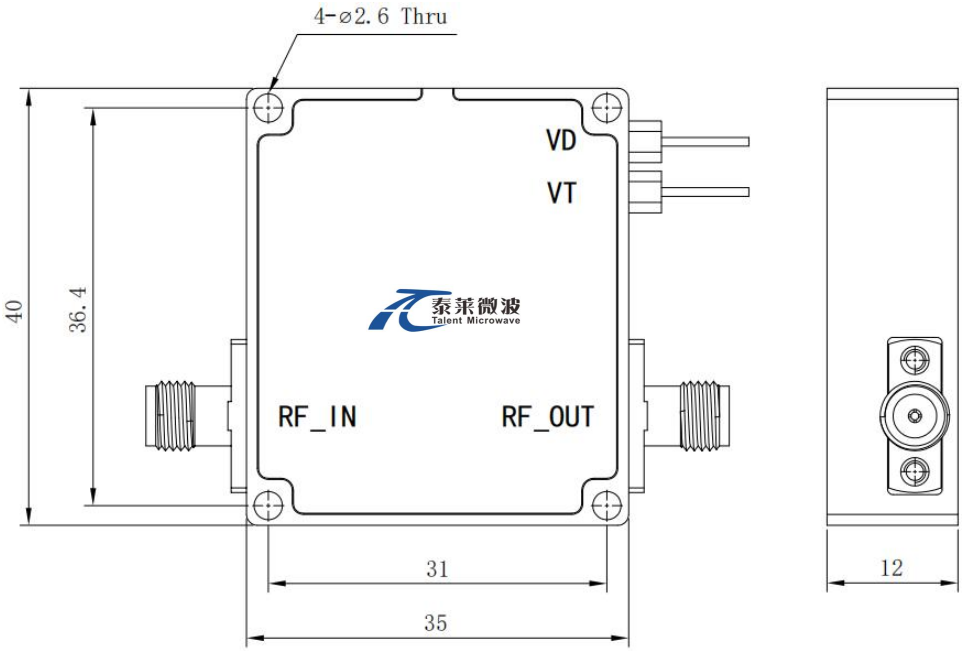
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Envrionmental And Physical Characteristics:

Description	Parameter	Units
Operating Temerature	-45 To +85	℃
Storage Temerature	-55 to +125	℃
Material	Al	
Finish	Gold Plated	
Input /Output Connector	SMA Female	

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

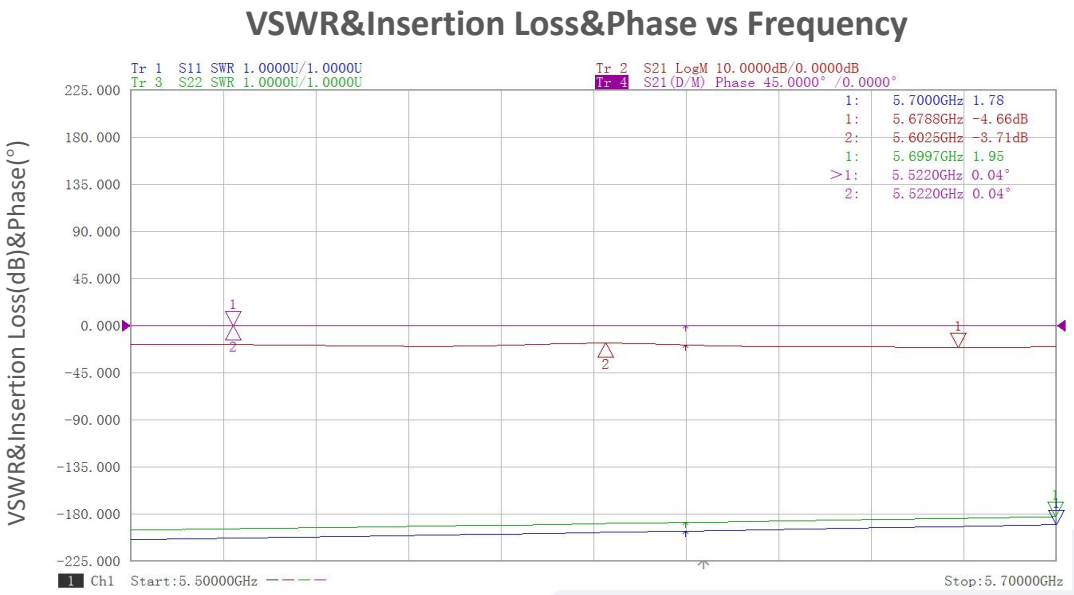
Ordering Information:

Base Number	Description	Revision
TLVP5.5G5.7G-30-5	Voltage Controlled Phase Shifter , 5.5-5.7GHz,SMA	Rev.1.0

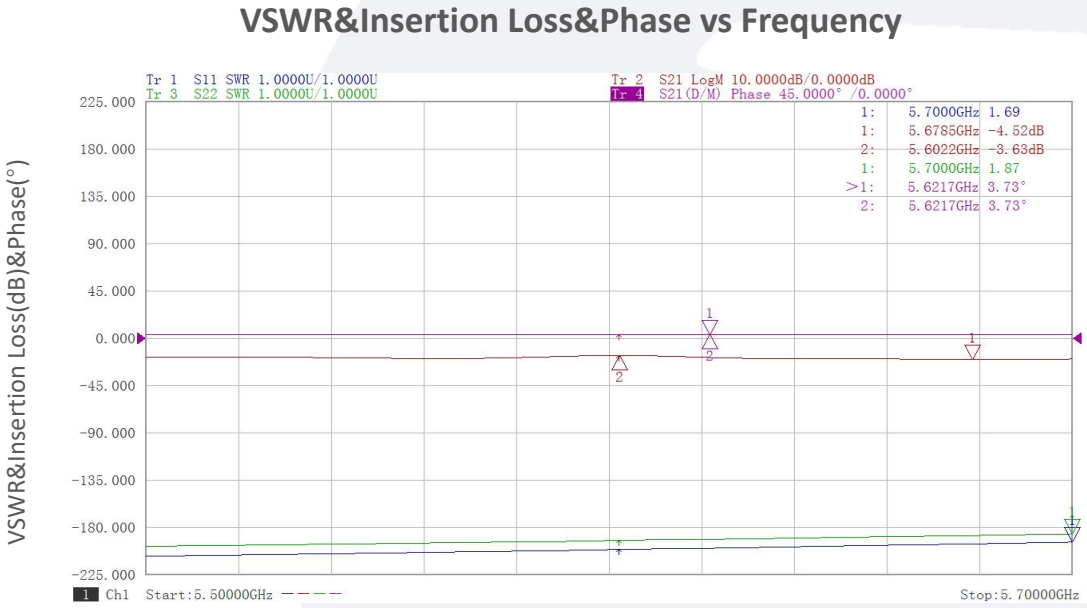
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Typical Performance Data:

0V:



0.5V:

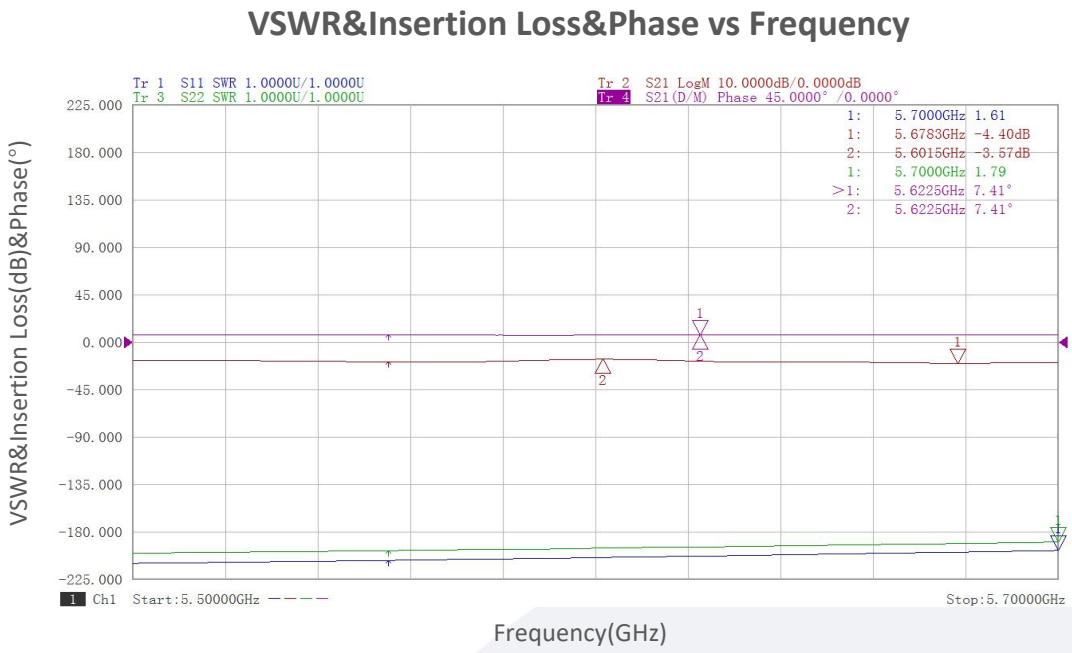


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

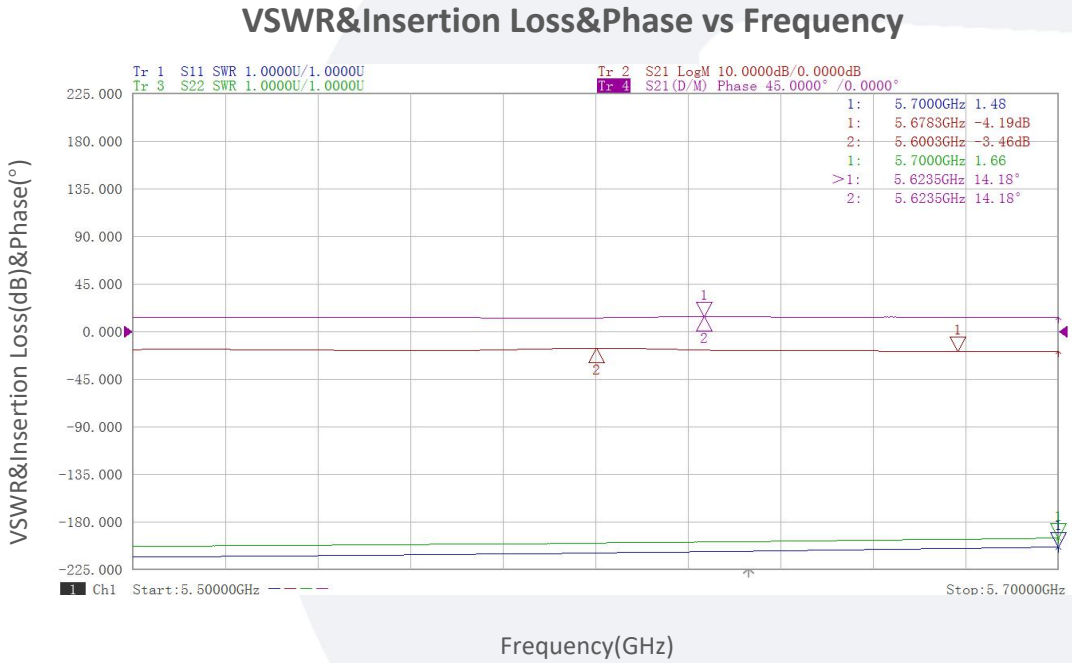
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Typical Performance Data:

1V:



2V:

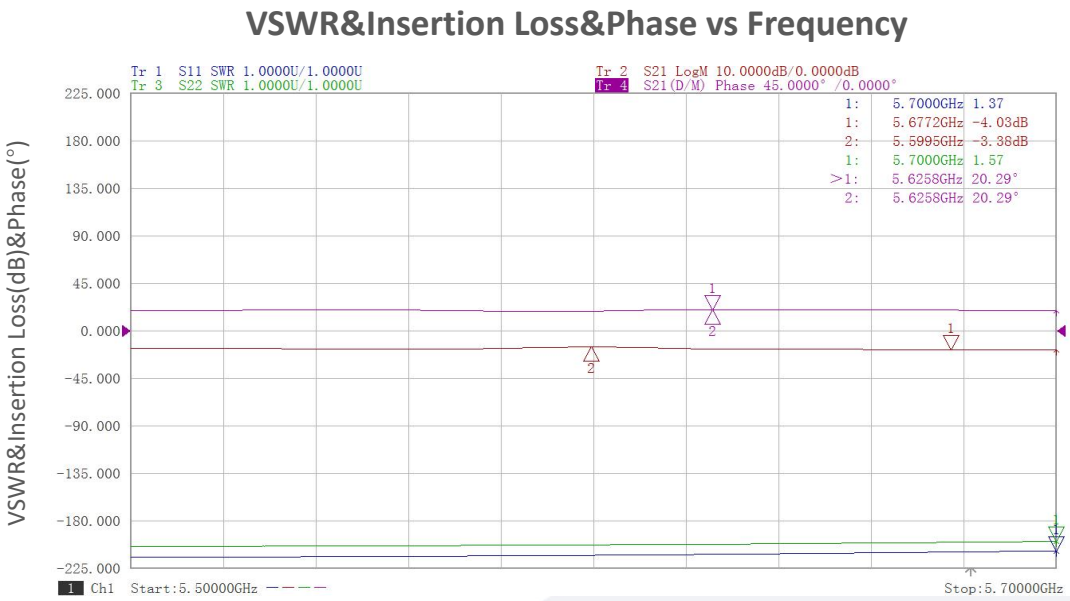


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

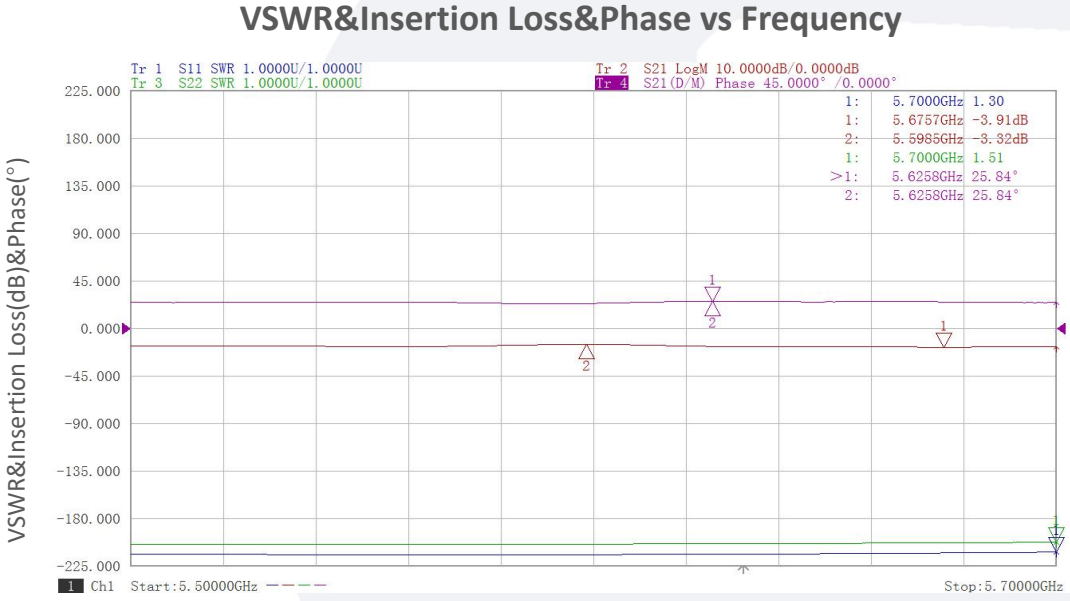
Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Typical Performance Data:

3V:



4V:

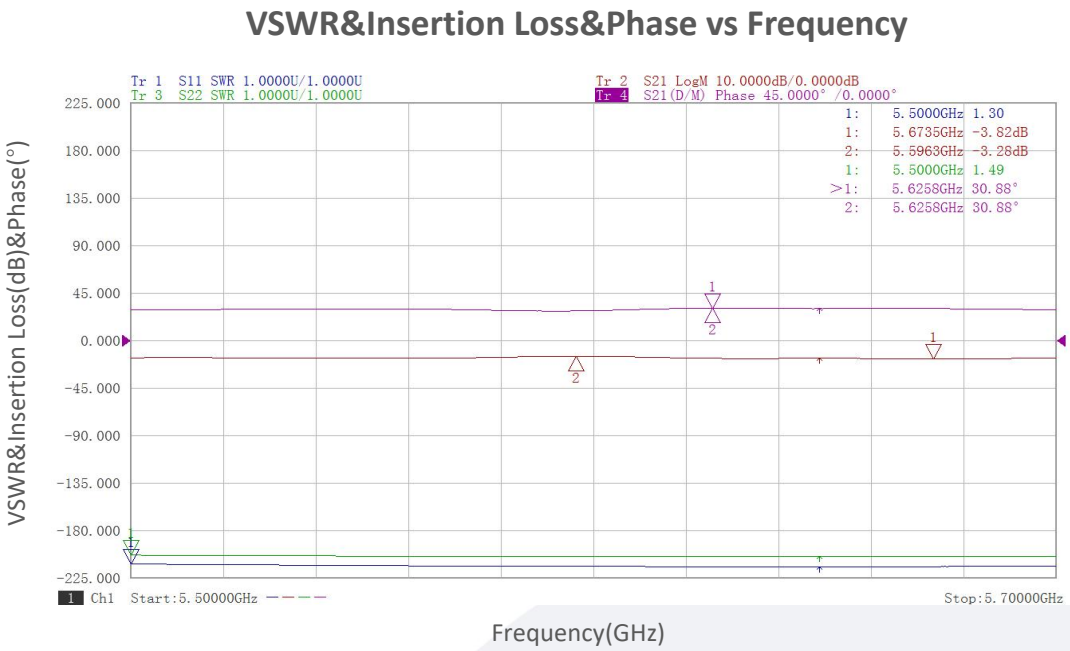


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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

Typical Performance Data:

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.