

Voltage Controlled Phase Shifter

0-15V/0-360° /8-18GHz

Model: TLVP8G18G-400-10

TLVP8G18G-400-10 is a coaxial voltage-variable shifter providing precise 360° phase control from 8-18 GHz. This model achieves a low insertion loss 6dB and a good VSWR 2.0:1. It features a control bandwidth from 8 to 18G and a control voltage range of 0 to +15V. The unit is housed in a compact aluminum alloy case with SMA connectors and a built-in base mounting bracket.

Features:

- Frequency range: 8-18GHz
- 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	8		18	GHz
移相范围 Phase Range		360		°
插损 Insertion Loss		6.0		dB
驻波 Output VSWR		2.0		:1
控制电压 Control Voltage Range	0	13	15	V
控制电流 Control Current		5		mA
相位平坦度 Phase Flatness		±15		°
输入功率 Input Power			23	dBm
阻抗 Impedance		50		Ohms

绝对最大值 Absolute Maximum Ratings :

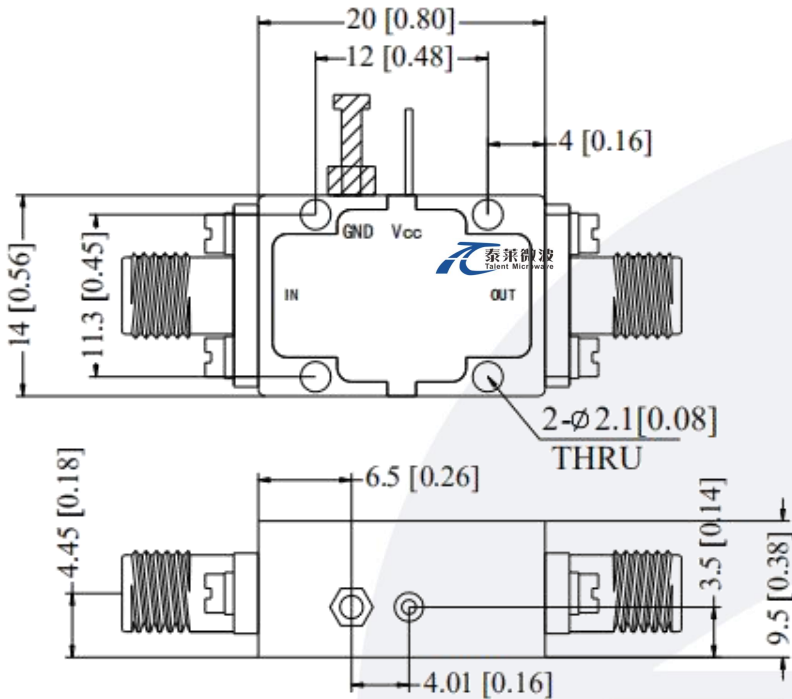
描述 Description	参数 Parameter	单位 Units
控制电压 Control Voltage	+15	V
射频输入功率 RF Input Power	23	dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V	

环境和机械特性 Environmental And Physical Characteristics:

描述 Description	参数 Parameter	单位 Units
操作温度 Operating Temperature	-45 To +85	°C
存储温度 Storage Temperature	-55 to +125	°C
材质 Material	Copper	
控制端口 Control Port	Pin	
输入/输出接口 Input /Output Connector	SMA Female	
尺寸 Size	14*20*9.5 (不含接头)	mm

外形图 Outline Drawing:

Unit:mm



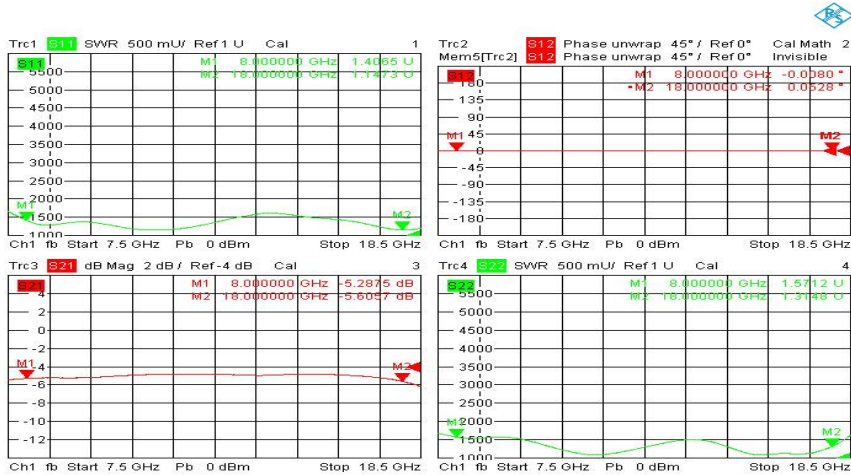
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

订货信息 Ordering Information:

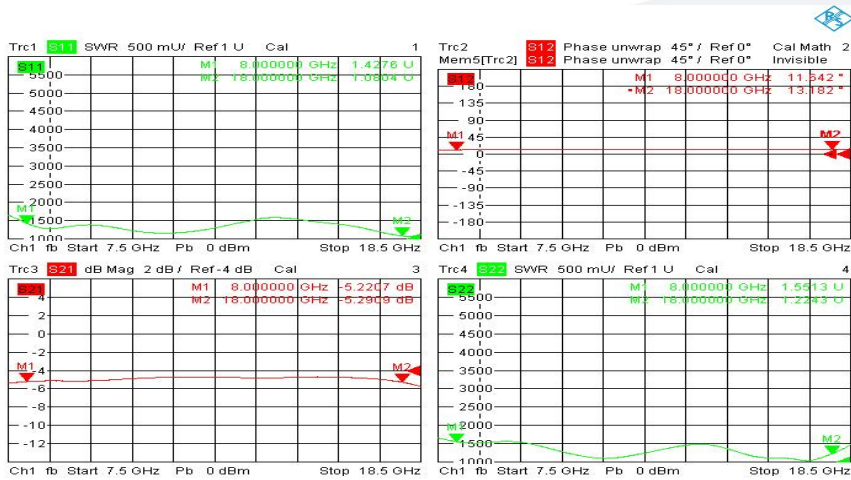
标准型号 Base Number	描述 Description	版本号 Revision
TLVP8G18G-400-10	Voltage Controlled Phase Shifter , 8-18GHz,SMA	Rev.1.1

典型曲线 Typical Performance Data:

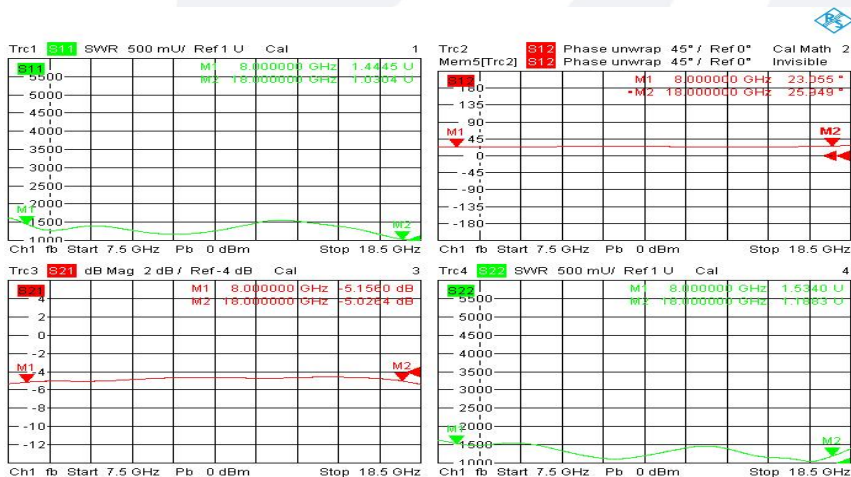
0.00V-0°



0.12V-12°

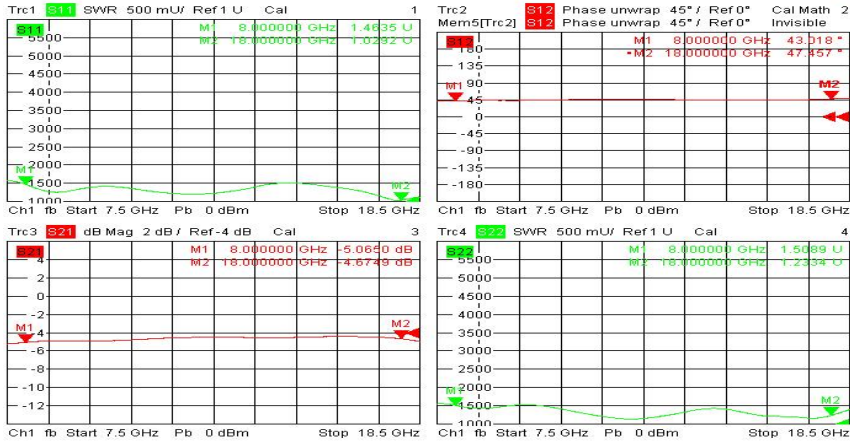


0.25V-24°

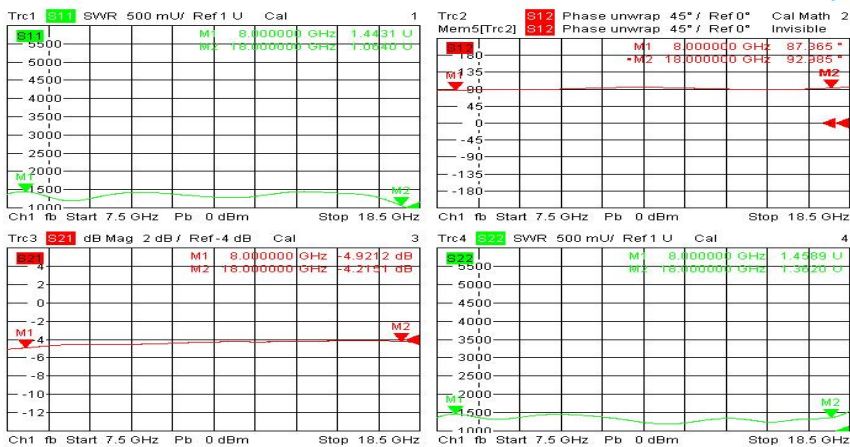


典型曲线 Typical Performance Data:

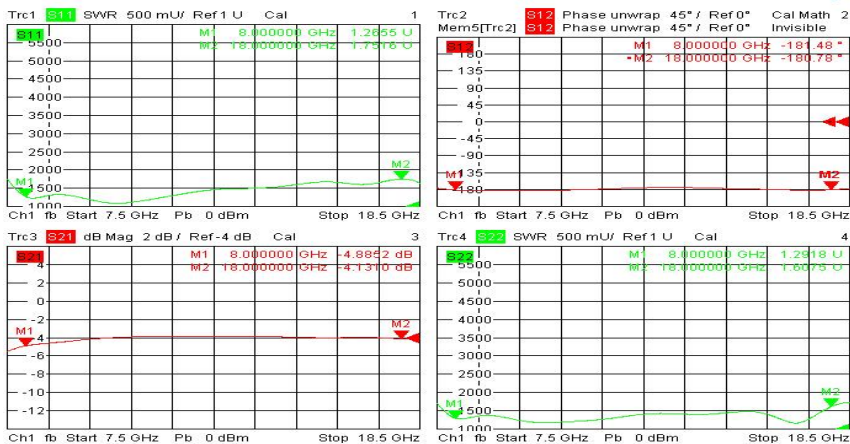
0.51V-45°



1.25V-90°



3.25V-180°



典型曲线 Typical Performance Data:

9.15V-360°

