

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

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	8		18	GHz
Phase Range		360		°
Insertion Loss		6.0		dB
Output VSWR		2.0		:1
Control Voltage Range	0	13	15	V
Control Current		5		mA
Phase Flatness		±15		°
Input Power			23	dBm
Impedance		50		Ohms

Absolute Maximum Ratings :

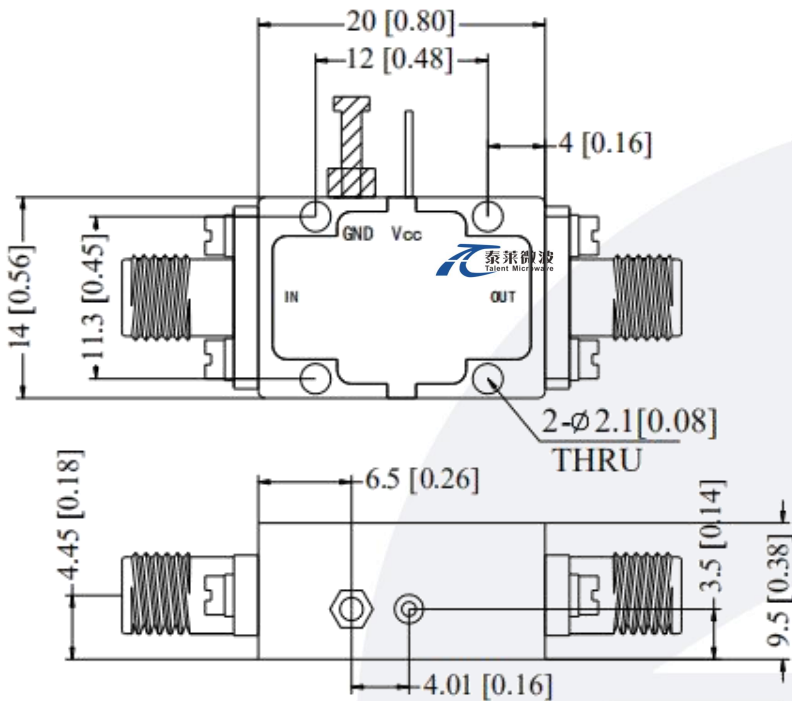
Description	Parameter	Units
Control Voltage	+15	V
RF Input Power	23	dBm
ESD sensitivity (HBm)	Class 0, passed 150V	

Environmental And Physical Characteristics:

Description	Parameter	Units
Operating Temperature	-45 To +85	°C
Storage Temperature	-55 to +125	°C
Material	Copper	
Control Port	Pin	
输入/Output Connector	SMA Female	
Size	14*20*9.5 (不含接头)	mm

Outline Drawing:

Unit:mm



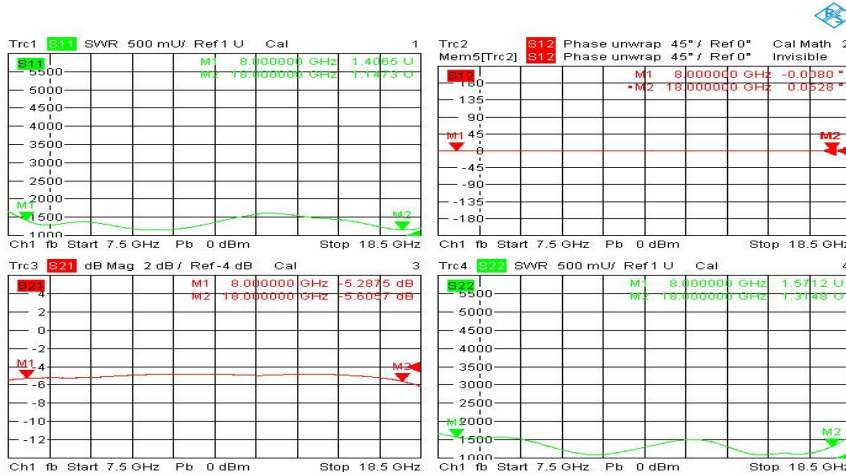
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Ordering Information:

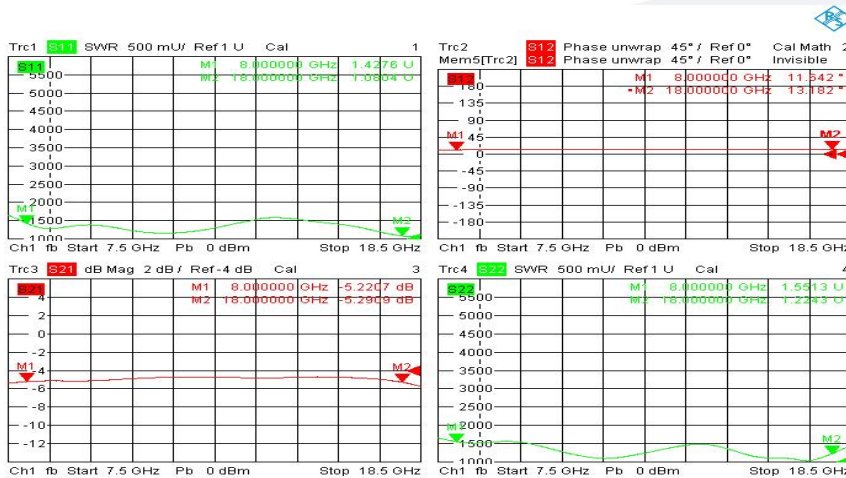
Base Number	Description	Revision
TLVP8G18G-400-10	Voltage Controlled Phase Shifter , 8-18GHz,SMA	Rev.1.1

Typical Performance Data:

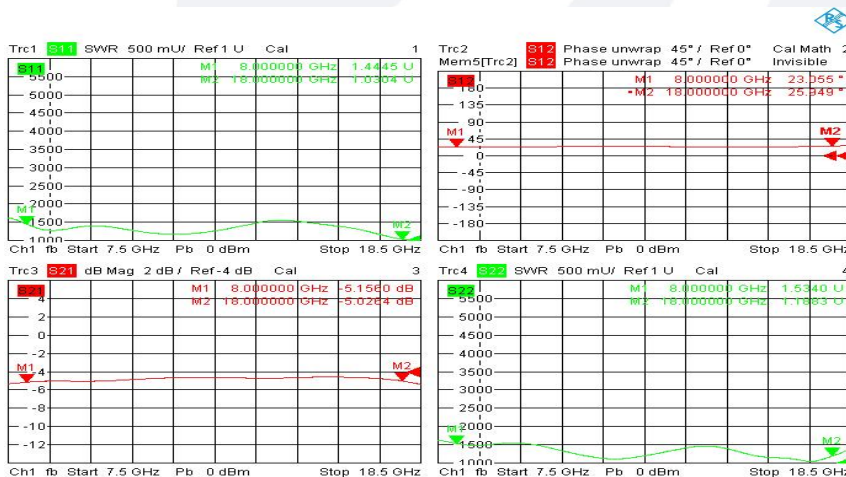
0.00V-0°



0.12V-12°

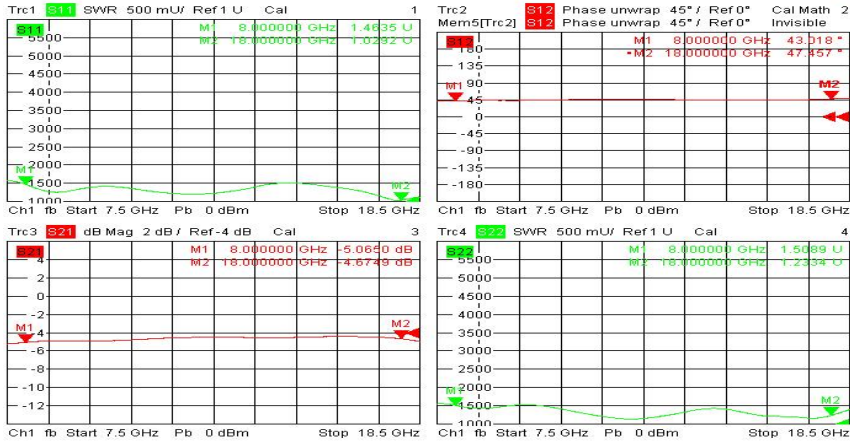


0.25V-24°

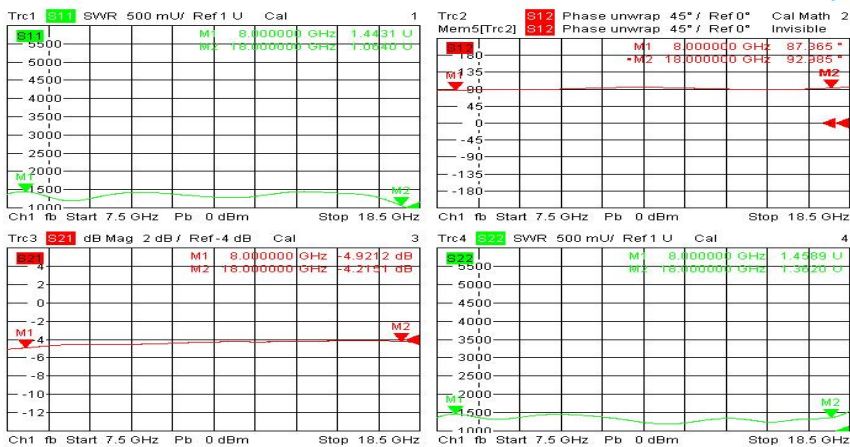


Typical Performance Data:

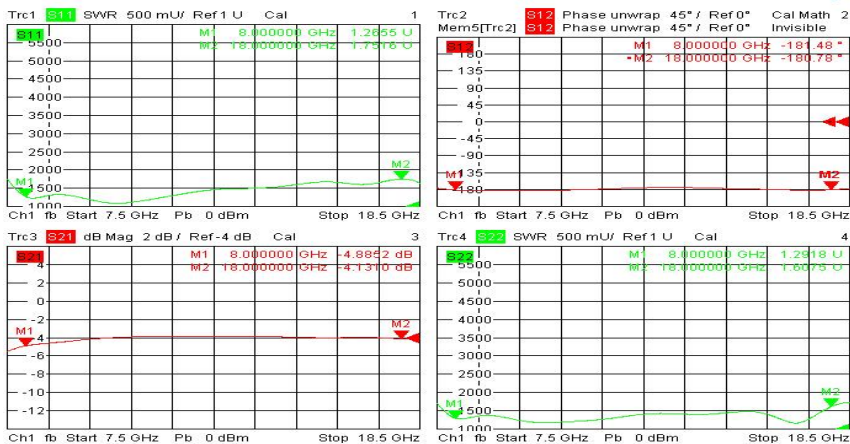
0.51V-45°



1.25V-90°



3.25V-180°



Typical Performance Data:

9.15V-360°

