

Model: TLVA2G18G-50-10
**Voltage Controlled Attenuator
 2-18 GHz, 50 dB Range**
Feature:

- Ultra Wide Band: 2-18 GHz
- Attenuation Range: 50 dB Min
- Insertion Loss: 2.0dB Typ
- High Attenuator Accuracy

电气特性 Electrical Specifications:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	2-18			GHz
插损 Insertion Loss		2	3	dB
衰减范围 Attenuation Range	50			dB
输入三阶交调 Input IP3		43		dBm
输入驻波 Input VSWR		1.6	2	:1
输出驻波 Output VSWR		1.6	2	:1
切换时间 Switch Speed			2.5	us
控制电压 Control Voltage	0	10	13	V
电流 Supply Current		30		mA
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

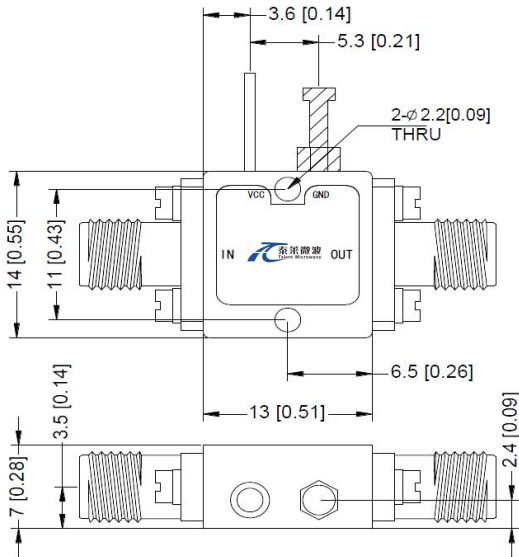
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	SMA Female/SMA Female	
控制连接器 Control Connector	Pin	
尺寸 Size	14*13*7	mm
材质 Material	Copper	

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	TBD
输入功率 RF Input Power	30 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

外形尺寸 Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

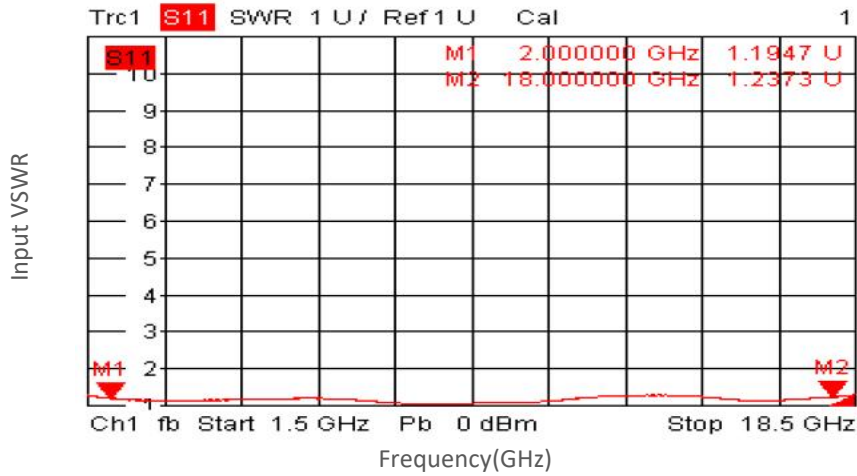
参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	50,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20g for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

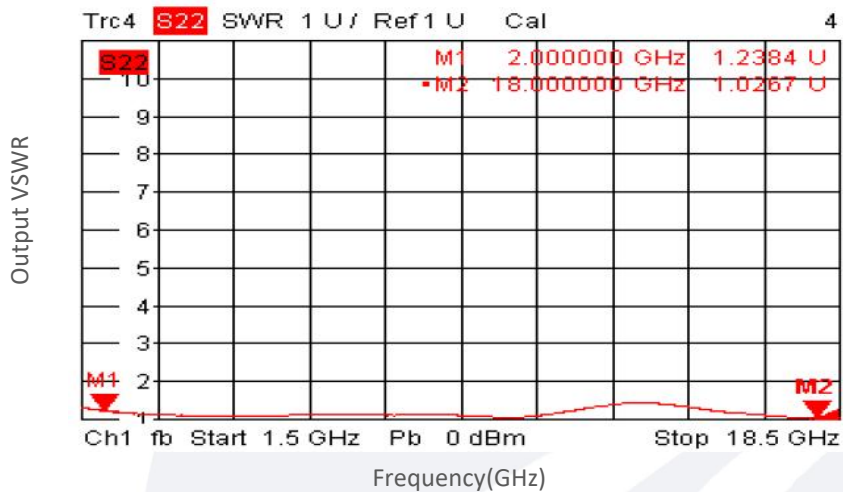
标准型号 Part Number	描述 Description	版本号 Revision
TLVA2G18G-50-10	Voltage Controlled Attenuator 2-18 GHz, 50 dB Range, SMA Female	Rev.1.1

典型曲线 Typical Performance Data:

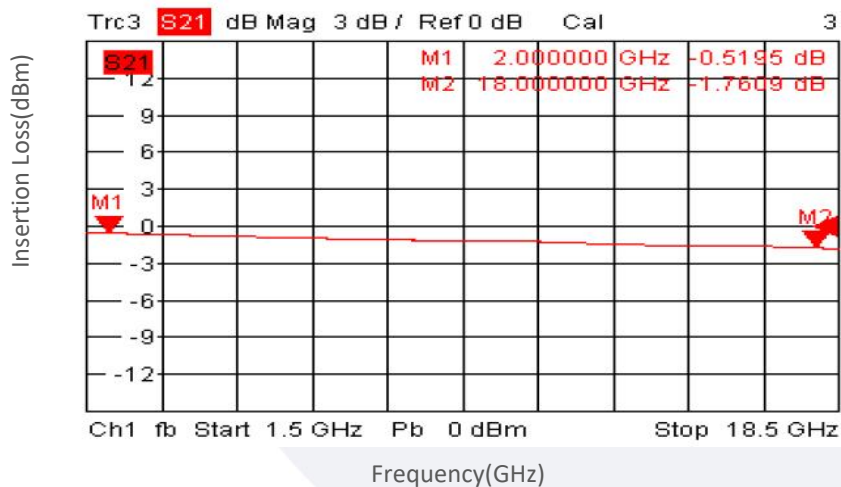
Input VSWR vs Frequency



Output VSWR vs Frequency

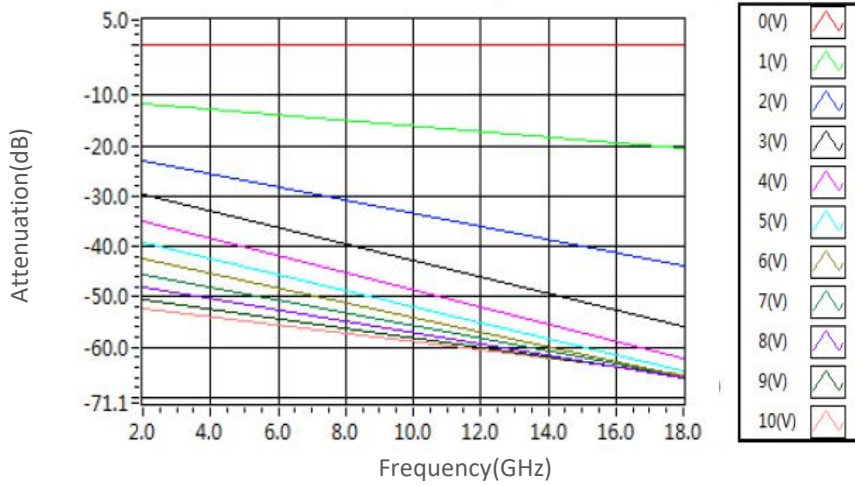


Insertion Loss vs Frequency

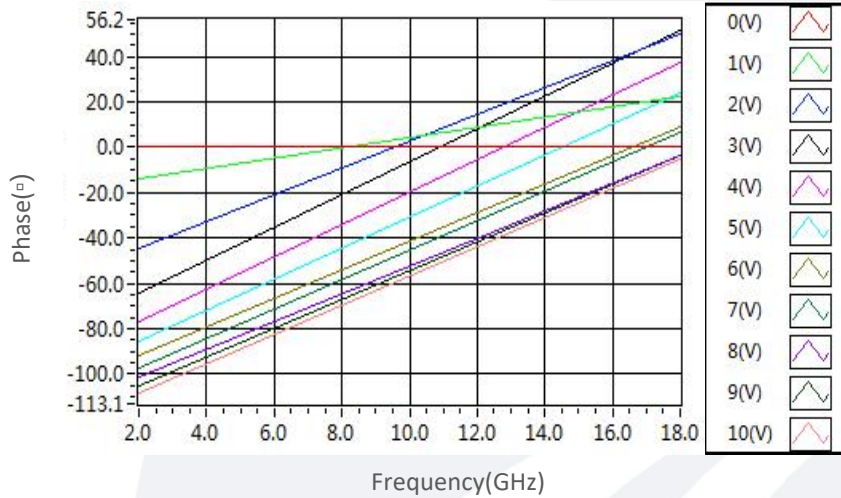


典型曲线 Typical Performance Data:

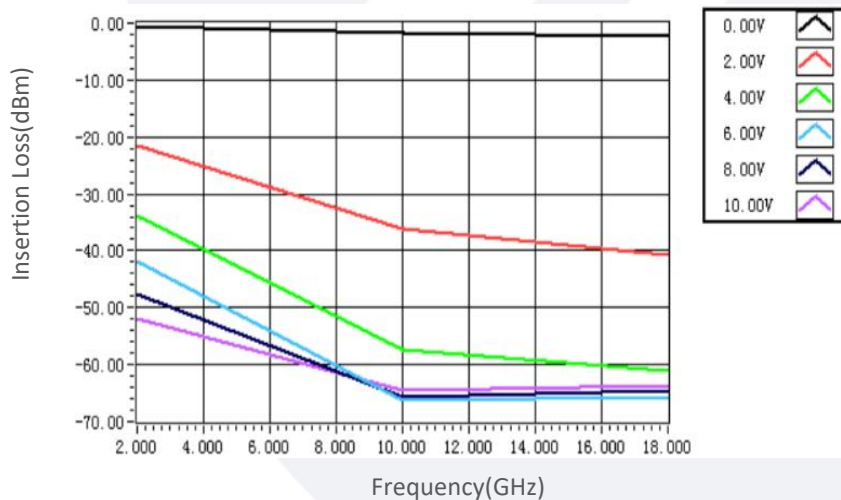
Attenuation vs Frequency



Phase vs Frequency

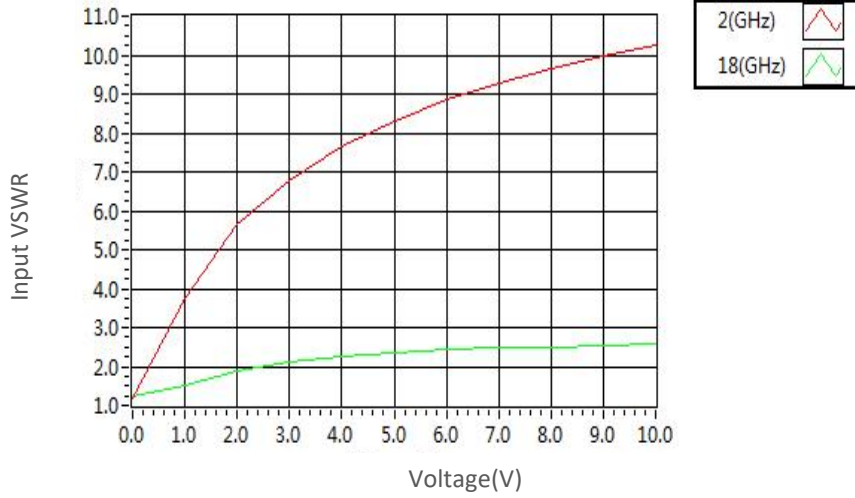


Insertion Loss vs Frequency

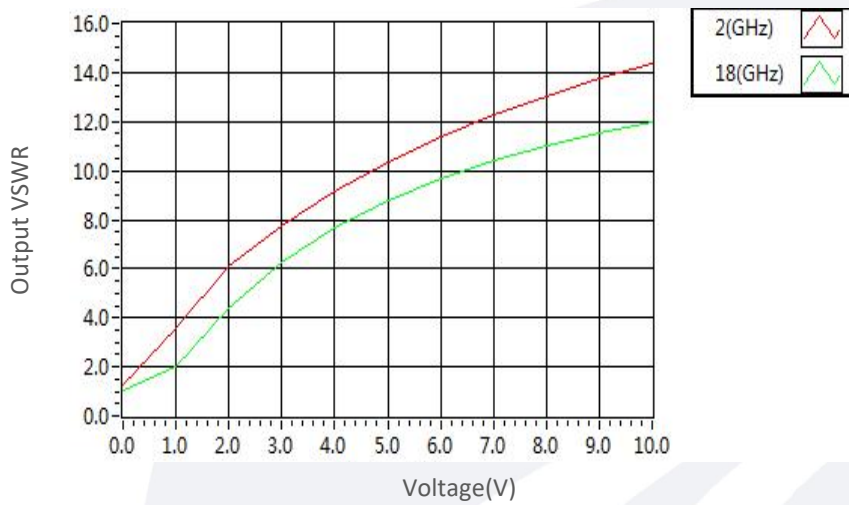


典型曲线 Typical Performance Data:

Input VSWR vs Voltage



Output VSWR vs Voltage



Attenuation vs Voltage

