

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

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	2-18			GHz
Insertion Loss		2	3	dB
Attenuation Range	50			dB
Input IP3		43		dBm
Input VSWR		1.6	2	:1
Output VSWR		1.6	2	:1
Switch Speed			2.5	us
Control Voltage	0	10	13	V
Supply Current		30		mA
Impedance	50			Ohms

Mechanical Specifications:

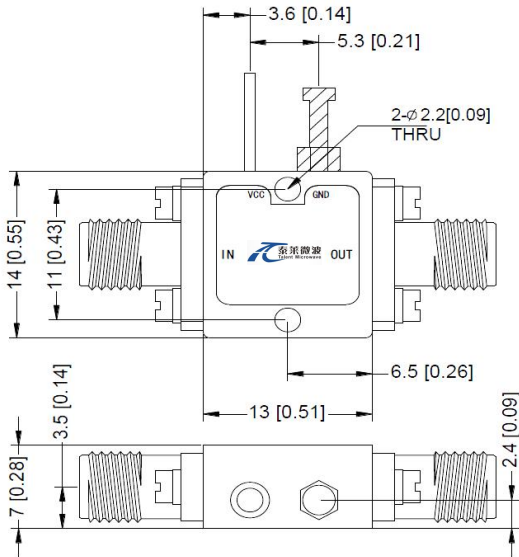
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
Control Connector	Pin	
Size	14*13*7	mm
Material	Copper	

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	30 dBm
ESD sensitivity (HBM)	Class 0, passed 150V

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

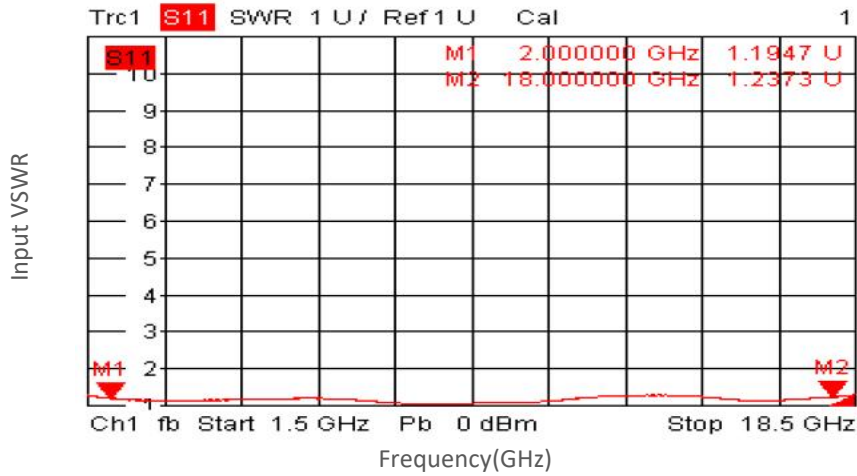
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20g for 11msc half sin wave,3 axis both directions			

Ordering Information:

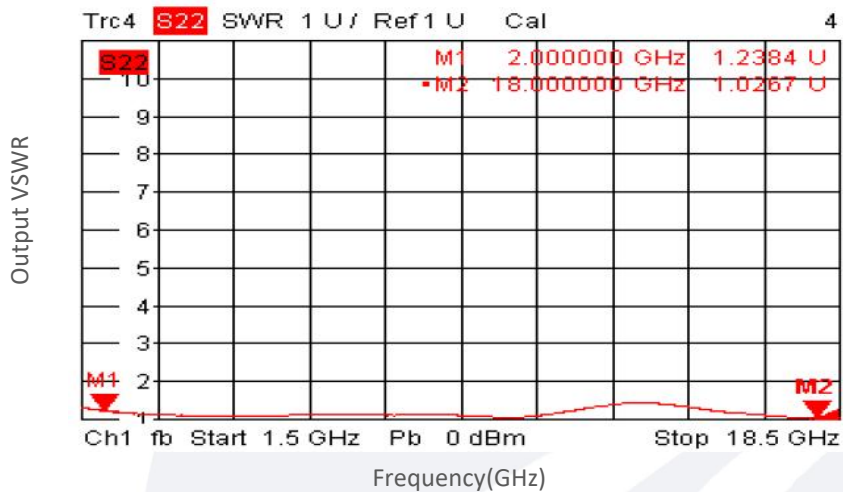
Part Number	Description	Revision
TLVA2G18G-50-10	Voltage Controlled Attenuator 2-18 GHz, 50 dB Range,SMA Female	Rev.1.1

Typical Performance Data:

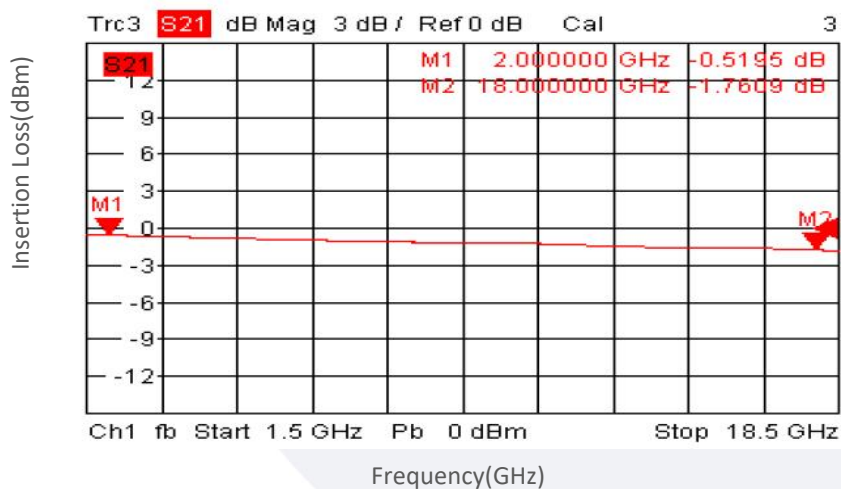
Input VSWR vs Frequency



Output VSWR vs Frequency

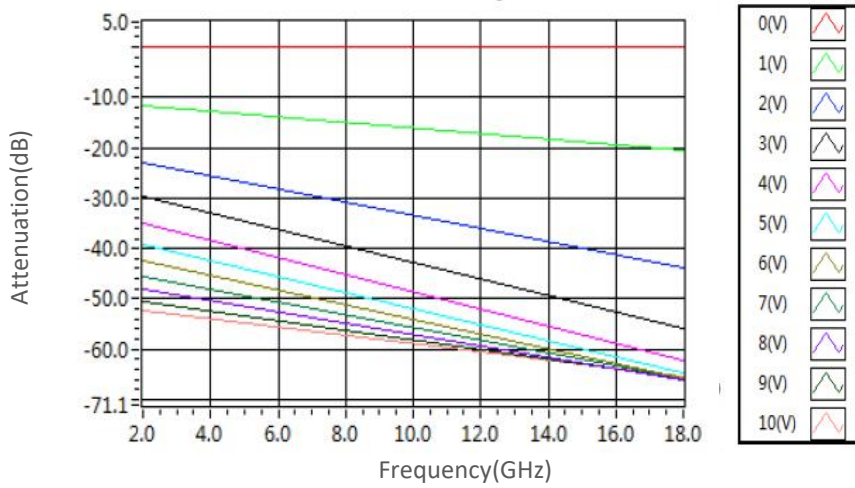


Insertion Loss vs Frequency

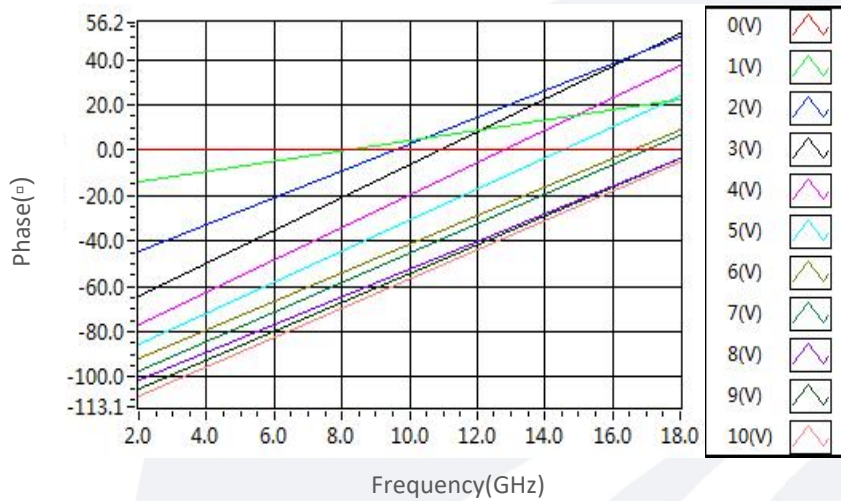


Typical Performance Data:

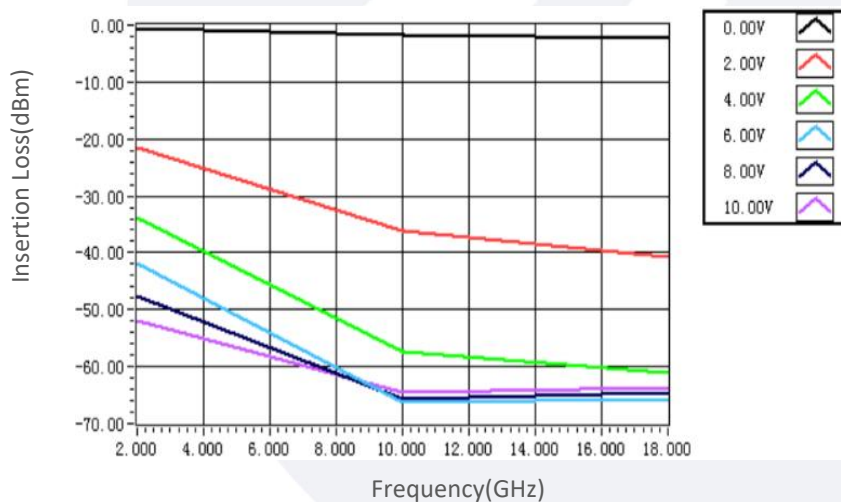
Attenuation vs Frequency



Phase vs Frequency

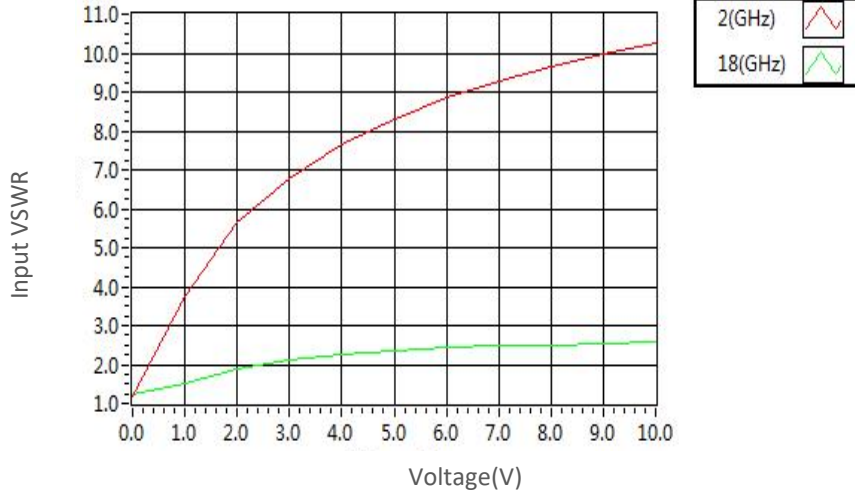


Insertion Loss vs Frequency

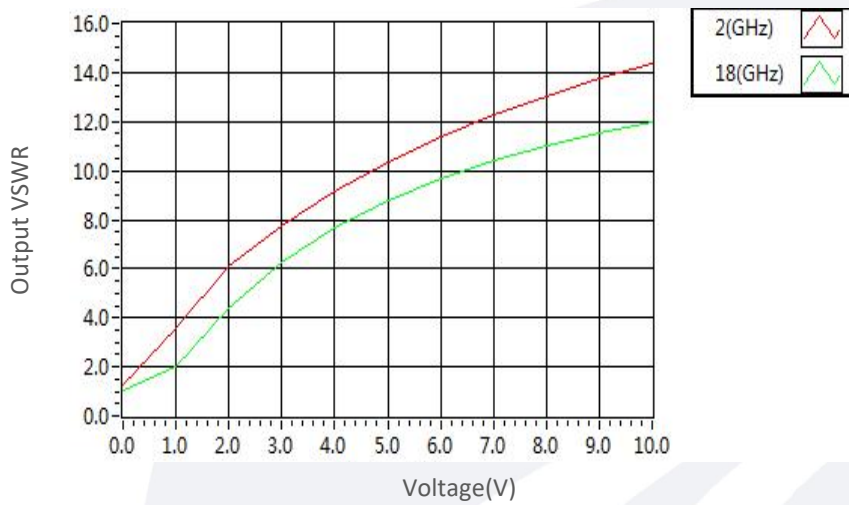


Typical Performance Data:

Input VSWR vs Voltage



Output VSWR vs Voltage



Attenuation vs Voltage

