

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

- Ultra Wide Band: 2-18 GHz
- Attenuation Range: 50 dB Typ
- Insertion Loss: 5 dB Typ
- High Attenuator Accuracy

**Electrical Specifications:**

Parameter	Min.	Typ.	Max.	Units
Frequency range	2-18			GHz
Insertion Loss		1.4	1.8	dB
Attenuation Range		50		dB
Switich Speed		5		us
Input IP3		45		dBm
Input VSWR		1.5	1.8	:1
Output VSWR		1.5	1.8	:1
nput Max Power			37	dBm
DC Voltage	0	10		V DC
Supply Current			15	mA
Impedance	50			Ohms

**Mechanical Specifications:**

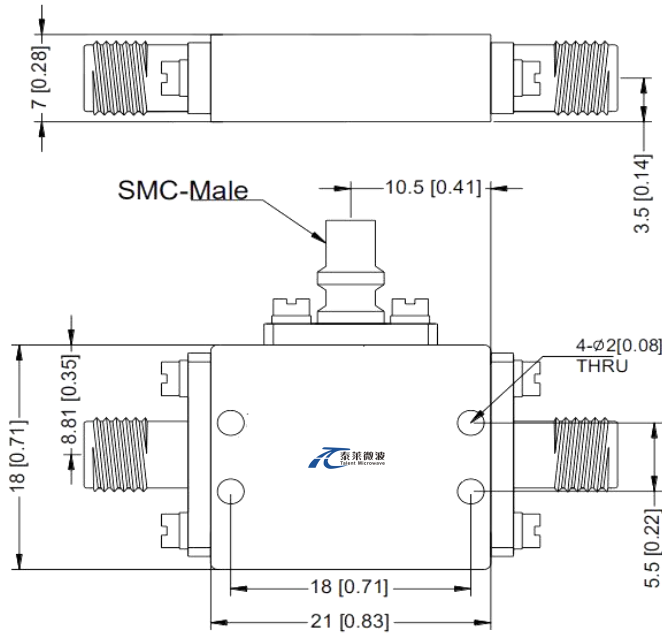
Parameter	Value	Units
Input /Output Connector	SMA-Female	
Control Connector	SMC-Male	
Size	21*18*7	mm
Material	Copper	

**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	37 dBm
ESD sensitivity (Hbm)	Class 0, passed 150V

**Outline Drawing:**

Unit: mm



**Environmental Conditions:**

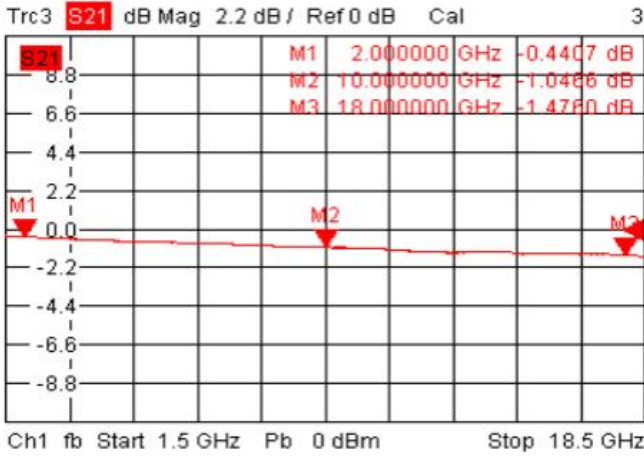
Parameter	Min.	Typ.	Max.	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**Ordering Information:**

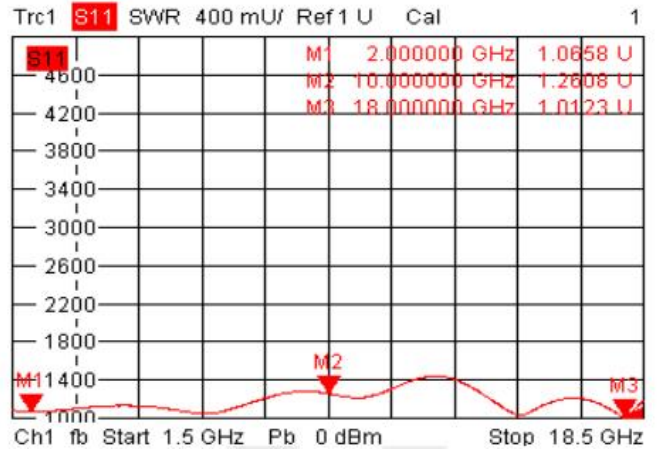
Part Number	Description	Revision
TLVA2G18G-50-10H	Voltage Controlled Attenuator 2-18 GHz, 50 dB Range,SMA-Female	Rev.1.1

Typical Performance Date:

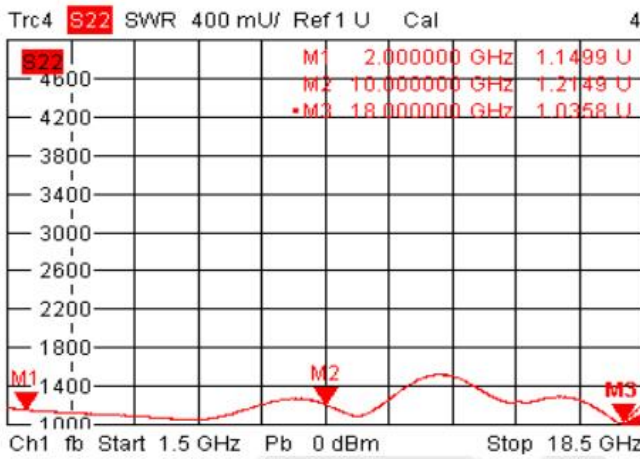
Insertion Loss vs Frequency



Input VSWR vs Frequency



Output VSWR vs Frequency



Attenuation vs Frequency

