泰莱微波 Talent Microwave

Suzhou Talent Microwave,Inc
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Voltage Controlled Attenuator

DC-18 GHz/35dB Attenuation Range

Model: TLVADC18G-35-2

The TLVADC18G-35-2 is an broadband voltage controlled electrical attenuator operating from DC to 18 GHz. The attenuator exhibits 5 dB typical insertion loss and 0 to 35 dB nominal attenuation range across the frequency range of DC to 18 GHz while applying 0 to +2.5 V DC control voltage. The RF input and output ports are female SMA coax connectors.

Features:

- Frequency range: DC-18GHz
- Attenuation Range: 35dB
- Insertion Loss: 5dB Typ
- High Attenuator Accuracy

Applications:

- Radar Systems
- Communication Systems
- Testing Equipment

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	DC		18	GHz
插损 Insertion Loss		5		dB
衰减范围 Attenuation Range	0		35	dB
输入驻波 Input VSWR		2		:1
输出驻波 Output VSWR		2		:1
最大输入功率 Input Max Power			23	dBm
控制电压 Control Voltage	0		2.5	V DC
衰减状态 Attenuation	-2.5		-35	dB
直流电压 DC Voltage		5		V DC
直流电流 DC Supply Current		10		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	35*40*12	mm

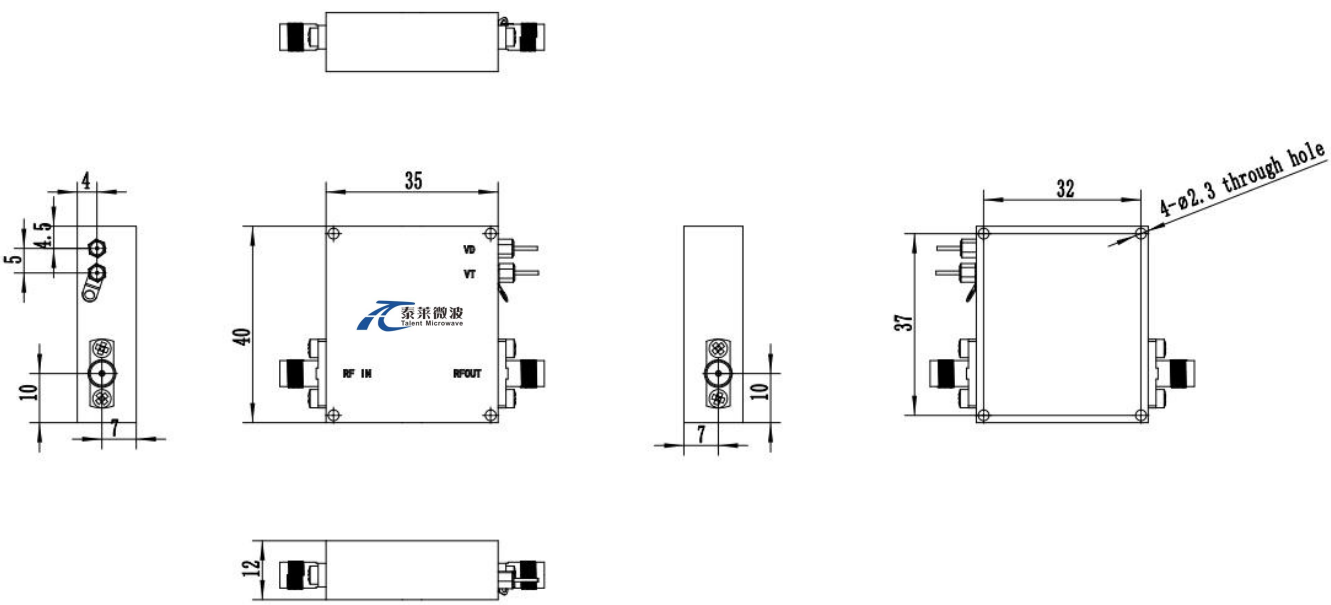
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绝对最大值 Absolute Maximum Ratings :

参数 Parameter	指标 Value	单位 Units
供电偏置电压 Supply Bias Voltage	TBD	
射频输入功率 RF Input Power	+23	dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V	

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



VT(V)	衰减值 Attenuation(dB)
0 V	0
2.5 V	35

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

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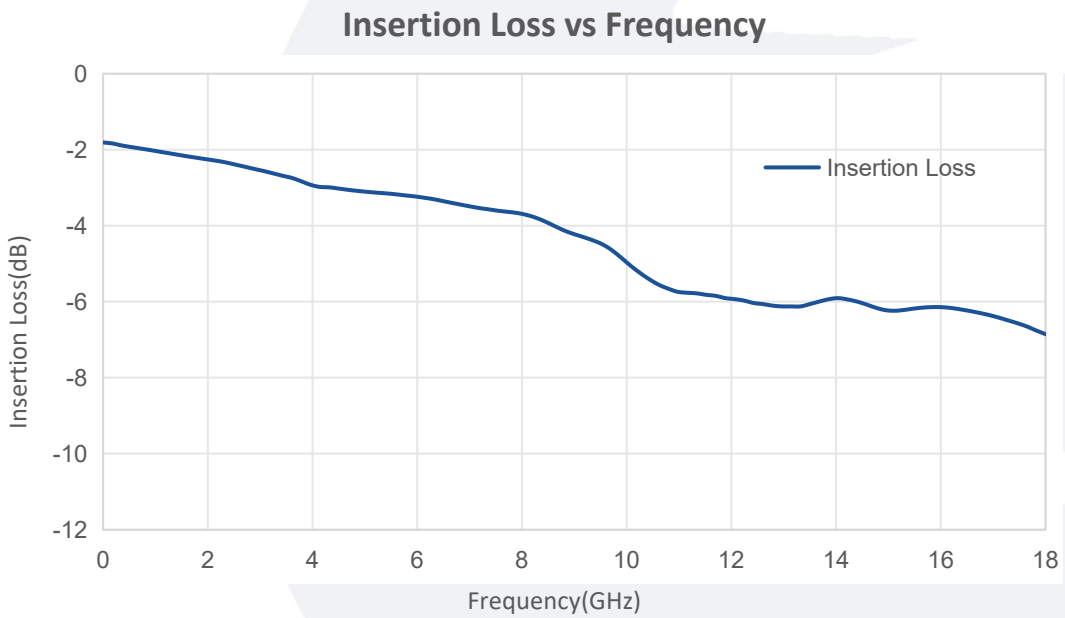
温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-10		+65	℃
存储温度 Non-operating Temperature	-45		+85	℃
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			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 Base Number	描述 Description	版本号 Revision
TLVADC18G-35-2	Voltage Controlled Attenuator DC-18 GHz, 35 dB Range,SMA Female	Rev.1.1

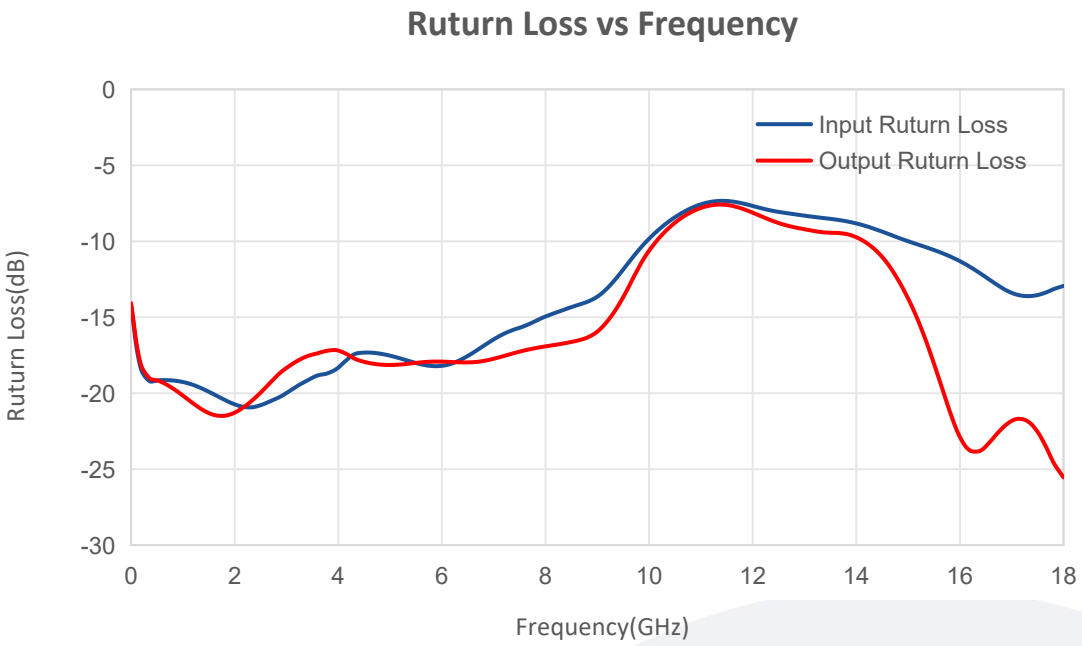
典型曲线 Typical Performance Data:

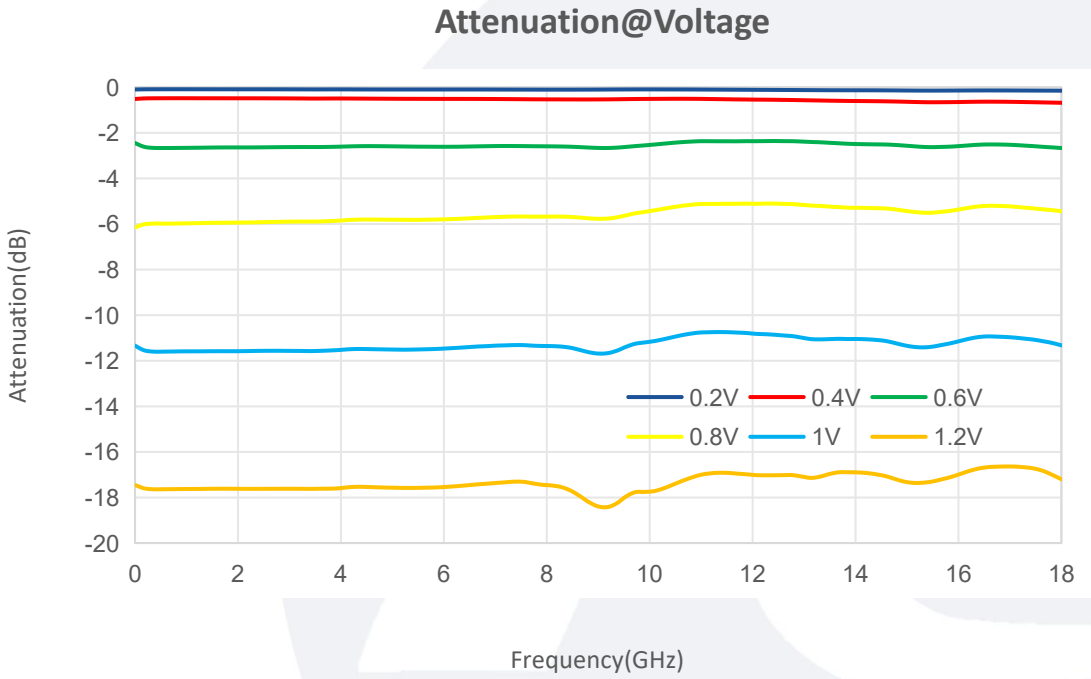


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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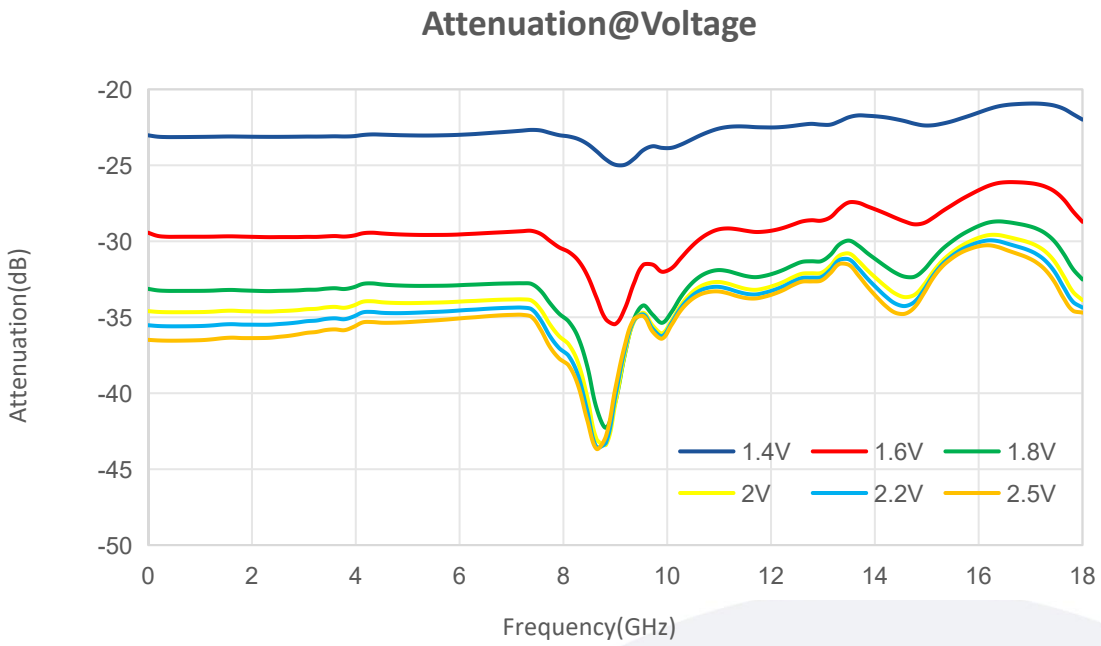




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