泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

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

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	DC		18	GHz
Insertion Loss		5		dB
Attenuation Range	0		35	dB
Input VSWR		2		:1
Output VSWR		2		:1
Input Max Power			23	dBm
Control Voltage	0		2.5	V DC
Attenuation	-2.5		-35	dB
DC Voltage		5		V DC
DC Supply Current		10		mA
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
Control Connector	Pin	
Size	35*40*12	mm

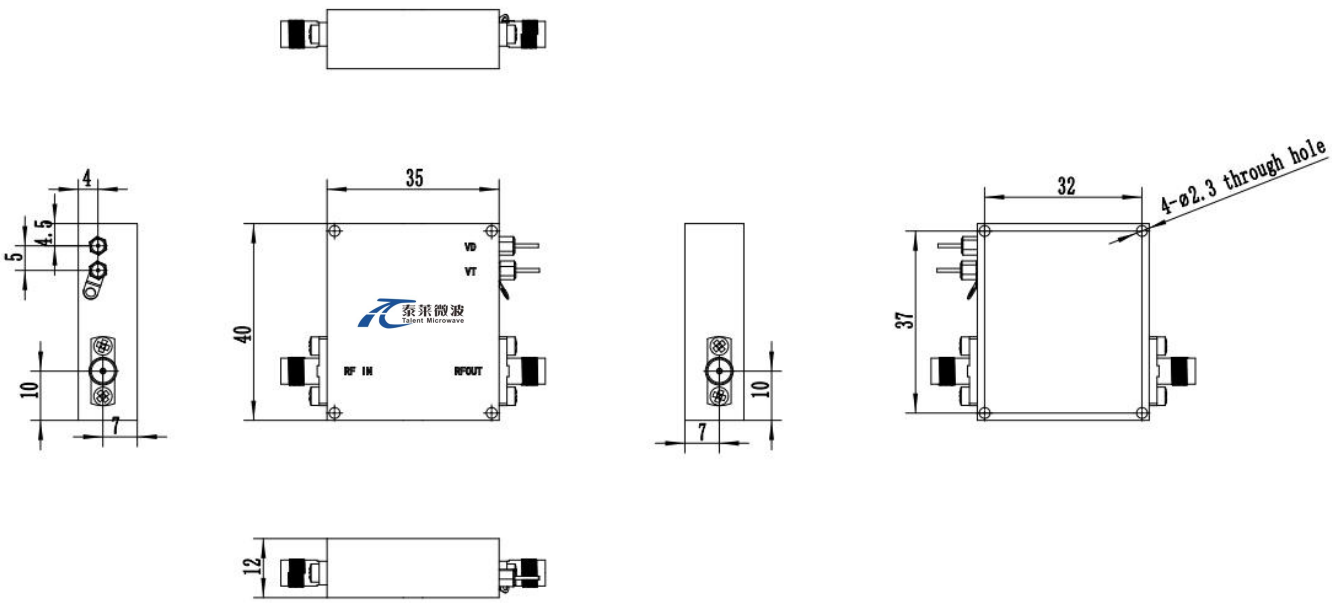
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Absolute Maximum Ratings :

Parameter	Value	Units
Supply Bias Voltage	TBD	
RF Input Power	+23	dBm
ESD sensitivity (HBm)	Class 0, passed 150V	

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

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

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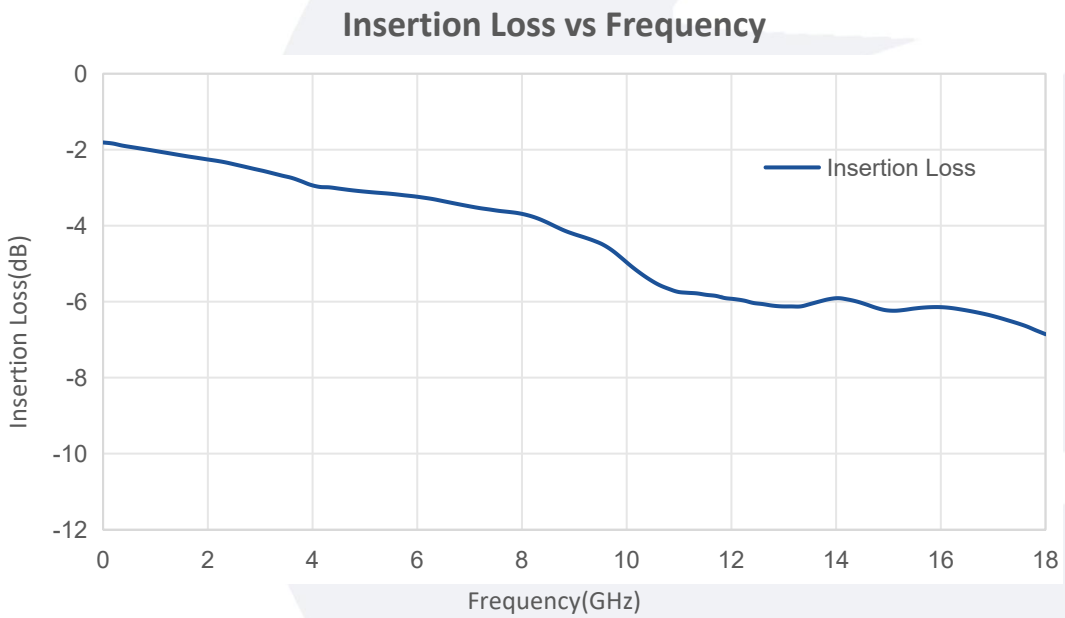
Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	℃
Non-operating Temperature	-45		+85	℃
Relative humidity		95		%
Altitude	10,000			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:

Base Number	Description	Revision
TLVADC18G-35-2	Voltage Controlled Attenuator DC-18 GHz, 35 dB Range,SMA Female	Rev.1.1

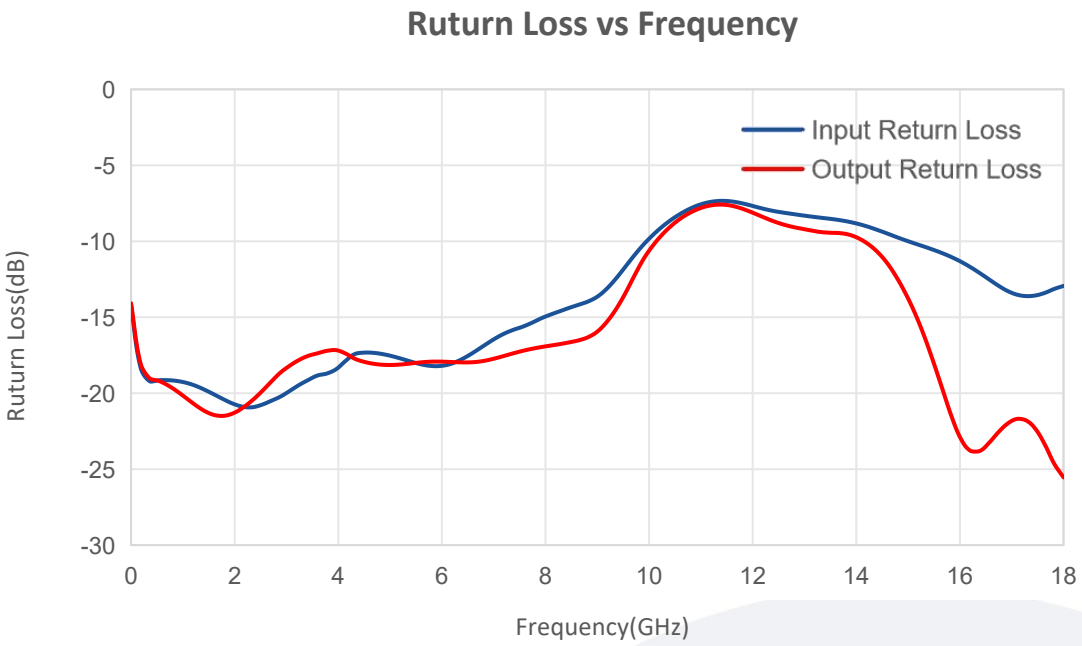
Typical Performance Data:

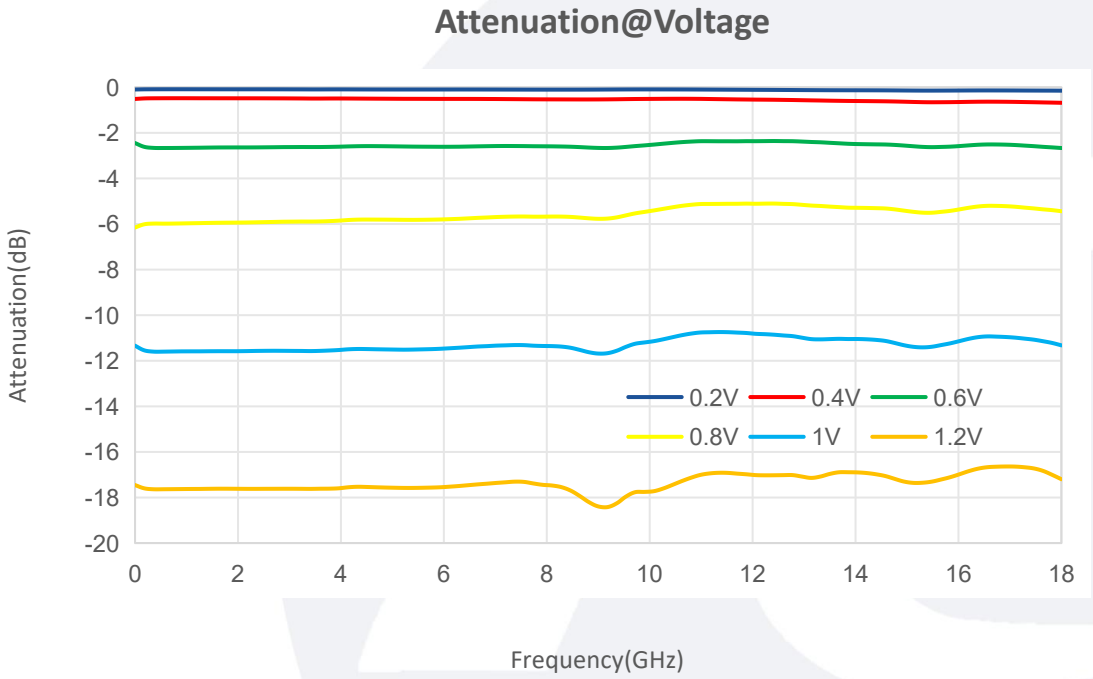


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

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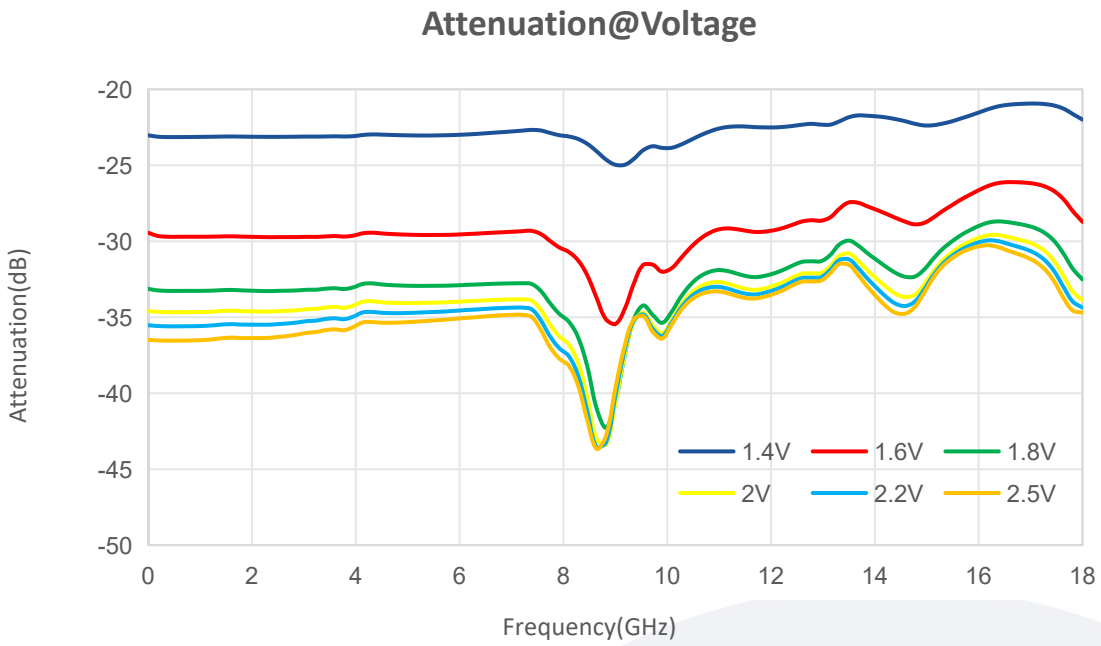




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