

Voltage Controlled Attenuator

0.1-12GHz/64dB Attenuation Range

Model: TLVA0.1G12G-64-10

The TLVA0.1G12G-64-10 is an broadband voltage controlled electrical attenuator operating from 0.1 to 12 GHz. The attenuator exhibits 7 dB typical insertion loss and 0 to 64 dB nominal attenuation range across the frequency range of 0.1 to 12 GHz while applying 0 to +10 V DC control voltage. The RF input and output ports are female SMA coax connectors.

Features:

- Frequency range: 0.1-12GHz
- Attenuation Range: 64dB Typ
- Insertion Loss: 7dB Typ
- High Attenuator Accuracy

Applications:

- Radar Systems
- Communication Systems
- Testing Equipment

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	0.1		12	GHz
Insertion Loss		7		dB
Attenuation Range	0		64	dB
Input VSWR		2.5		:1
Output VSWR		2.5		:1
Input Max Power			15	dBm
Control Voltage*	0	10		V DC
DC Voltage		12		V DC
DC Supply Current		30		mA
Impedance	50			Ohms

*Negative slope: "0" is the initial without attenuation;
The control voltage range is customizable.

Mechanical Specifications:

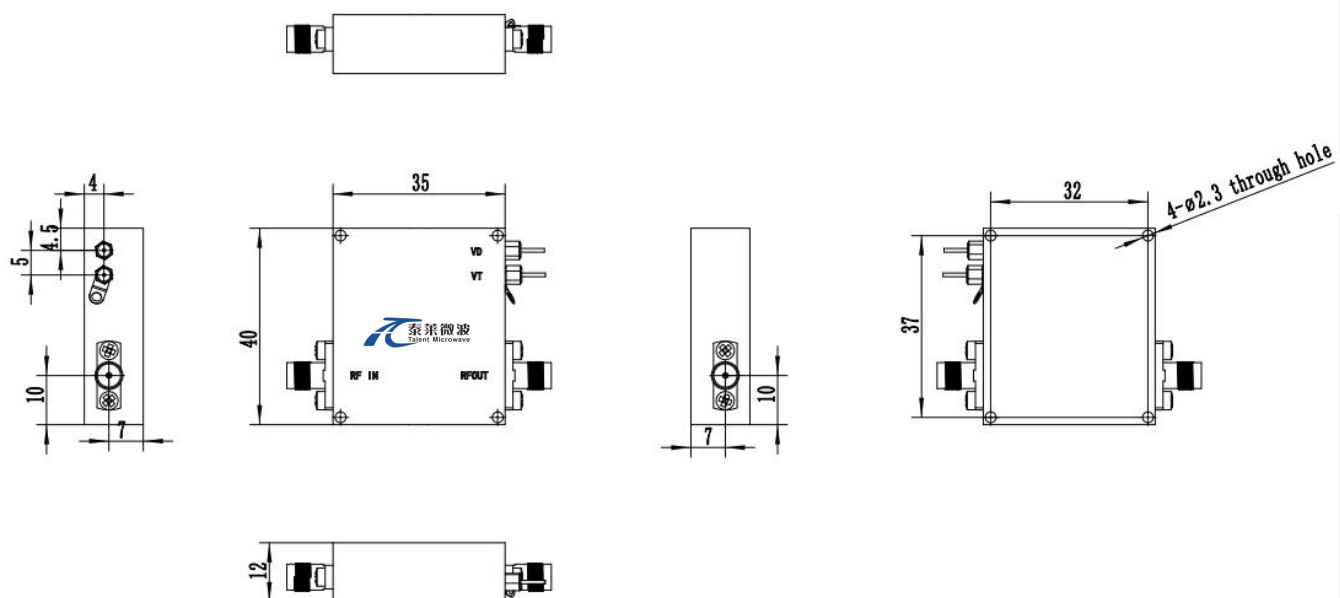
Description	Parameter	Units
Input /Output Connector	SMA Female/SMA Female	
Control Connector	Pin	
Size	35*40*12	mm

Absolute Maximum Ratings :

Description	Parameter	Units
Supply Bias Voltage	+15	VDC
RF Input Power	+15	dBm
ESD sensitivity (HBm)	Class 0, passed 150V	

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
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
TLVA0.1G12G-64-10	Voltage Controlled Attenuator 0.1-12GHz, 64dB Range, SMA Female	Rev.1.0