

D-band High Dynamic Range Electrical Attenuator

WR-6.5/110-170GHz/20dB Attenuation range

Model: TLVA-110170-20-06

TLVA-110170-20-06 is a D-band electrical attenuator. The attenuator exhibits 20 dB nominal attenuation range across the frequency range of 110 to 170 GHz. The control voltage of the standard model is -1 to 0 VDC. The RF input and output ports are WR-6.5 waveguides with UG-387/U-M anti-cocking flanges, and solder pin provides the control signal.

Features:

- Operating Frequency 110 to 170 GHz
- High Dynamic Range

Applications:

- THz Systems
- Testing Equipment

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency Range	110		170	GHz
Attenuation Range	3		20	dB
Insertion Loss		5		dB
Control Voltage	-1		0	V DC

Envrionmental And Physical Characteristics:

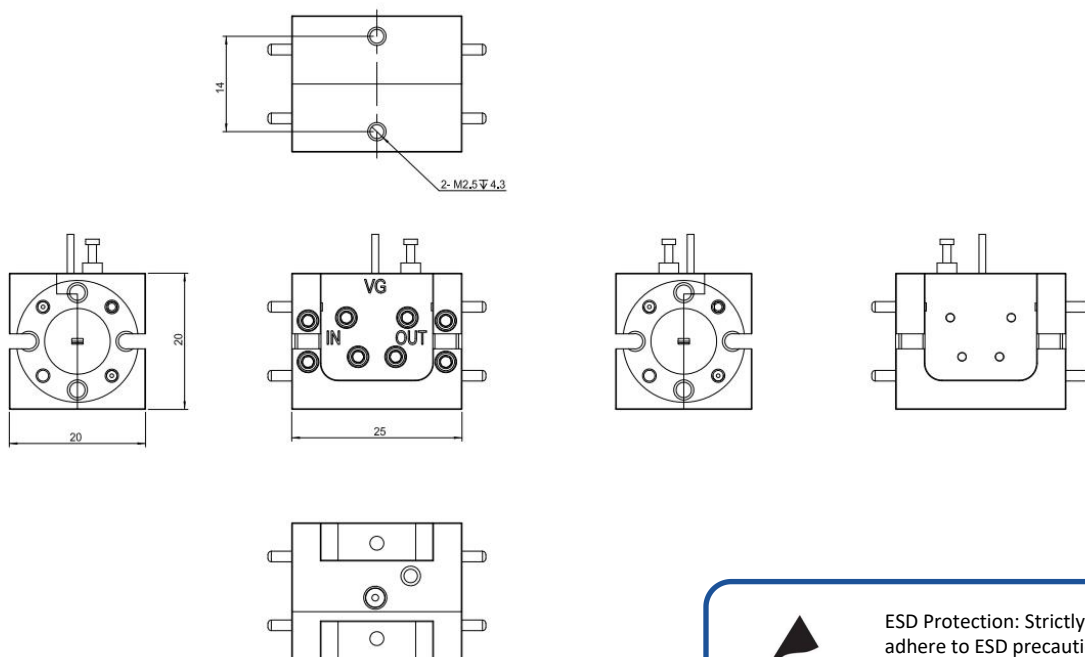
Description	Parameter	Units
Operating Temerature	0 To +50	°C
Storage Temerature	0 to +50	°C
Input /Output Connector	WR-6.5/UG-387/U	
Size	25*20*20	mm

Absolute Maximum Ratings :

Description	Parameter	Units
Supply Bias Voltage	$\pm 5\%$	V
RF Input Power	TBD	dBm
ESD sensitivity (HBm)	Class 0, passed 150V	

Outline Drawing:

Unit:mm; Tolerance: $\pm 0.1\text{mm}$

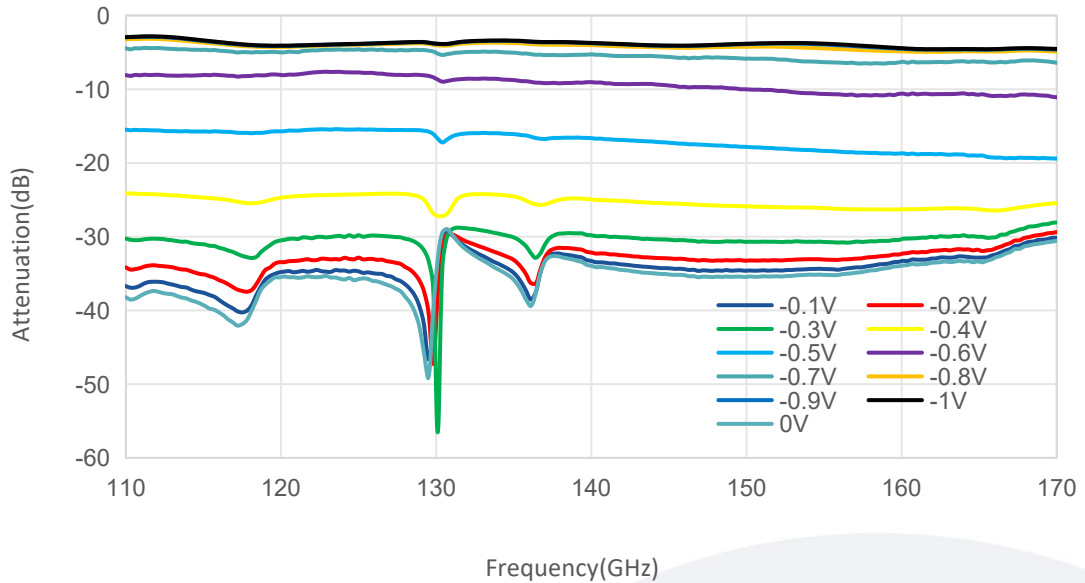


Ordering Information:

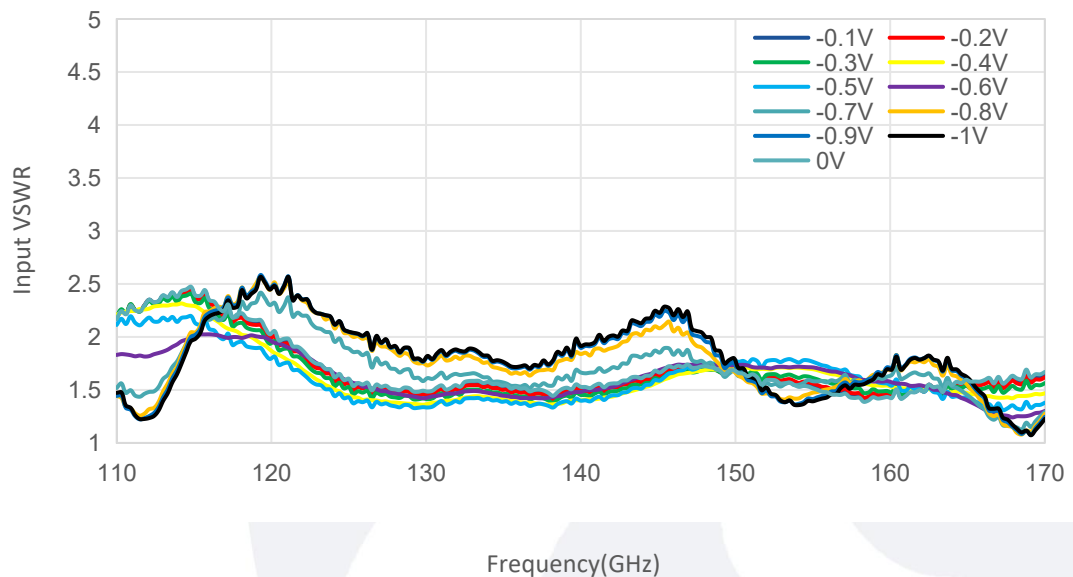
Base Number	Description
TLVA-110170-20-06	D-band High Dynamic Range Electrical Attenuator 110-170 GHz, 36dB Attenuation Range, WR-6.5

Typical Performance Data:

Attenuation@Voltage



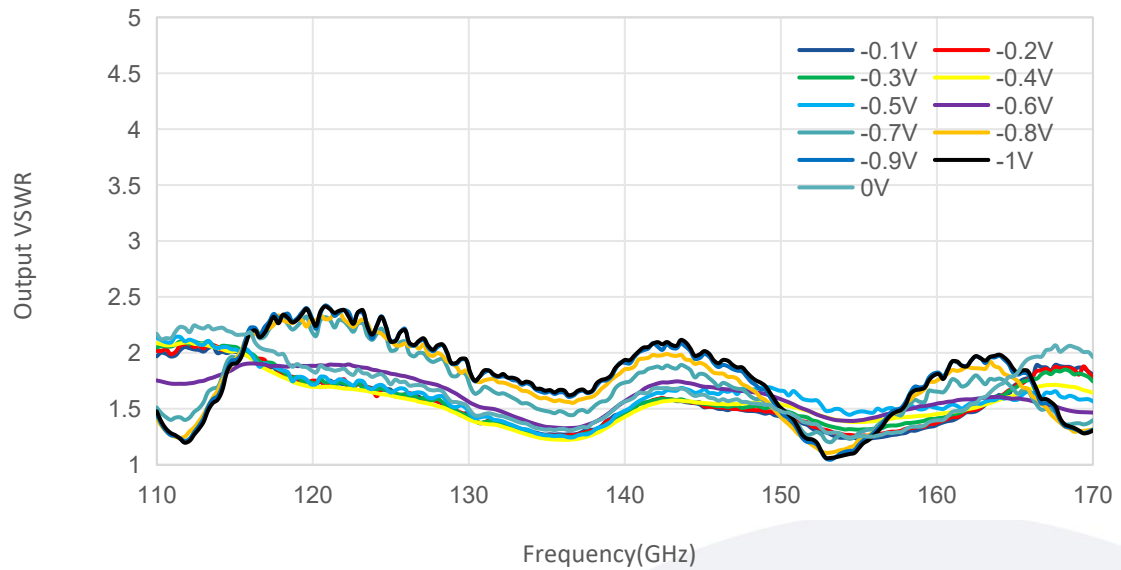
Input VSWR@Voltage



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.

Typical Performance Data:

Output VSWR@Voltage



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.