

Wake up your further dream.





DA-908V Lab Brick® High Resolution Digital Attenuator

200 - 8000 MHz Frequency | 90 dB Attenuation Range | 0.1 Step Size

Features/Benefits

- Reliable and Repeatable solid state digital attenuation
- Includes GUI, Windows and Linux SDK. LabVIEW driver
- USB and Ethernet Interfaces
- Configurable Static IP or DHCP
- Password protected Ethernet interface
- Programmable attenuation ramp and fading
- Operate multiple devices directly from a PC or self powered hub
- Easily portable USB powered device



Applications

- WiFi, WiFi6E, 3G, 4G, 5G, LTE, Microwave Radio Fading Simulators
- Engineering/Production Test Labs
- Automated Test Equipment (ATE)

The Lab Brick LDA series of Digital Attenuators bring affordability, functionality, reliability and simplicity to the microwave test bench. The LDA products range from 6 MHz to 40 GHz with input level tolerance to 2 Watts and step size as small as 0.1 dB.

The LDA-802-8 offers both USB and Ethernet interfaces. The USB port uses a native HID interface to avoid the difficulties inherent in using older serial or IEEE-488 interfaces implemented over USB. As a result, Lab Brick users can get to work faster without having to install kernel level drivers, and Lab Brick devices can be easily used on any system that supports USB HID devices, including low cost embedded computers using Linux or similar operating systems. The Ethernet interface is configurable for Static IP or DHCP with the ability to assign the HTTP port for extra security.

The LDA-908V Digital Attenuator is a highly accurate, bidirectional, 50 Ohm step attenuator. The LDA-908V provides calibrated attenuation from 200 to 8000 MHz with an amazing step size of 0.1 dB and typical accuracy < 0.25 dB over 90 dB of control range. The attenuators are easily programmable for fixed attenuation, swept attenuation ramps and fading profiles directly from the included Graphical User Interface (GUI). Alternatively, for users wishing to develop their own interface, Vaunix supplies LabVIEW drivers, Windows API DLL files, Linux drivers, Python examples and much more.









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LDA-908V Specifications

Parameter	Test Conditions	Min	Тур	Max
Frequency Range (MHz)		200		8000
Impedance (Ω)			50	
Attenuation Range (dB)		90		
Step Size (dB)		0.1		
Insertion Loss (dB)	< 2 GHz		5	7.5
	< 4 GHz		7.5	8.5
	< 8 GHz		10	11
Attenuation Accuracy (dB)	+25 °C		0.25	1.5
	-30 °C to +70 °C		1	3
Switching Speed (μs)			15	
Maximum Input Level (dBm)			23	
Input IP3 (dBm)		38	45	
VSWR			1.5:1	

Parameter	Test Conditions/Notes		
Power Requirements	From the USB connection	+5 VDC 75 mA	
Environmental	Operating Temperature	-30 °C to +70 °C	
	Relative Humidity (non-condensing)	<95%	
Physical Connections	Power	USB Type C – female	
	Control	USB/Ethernet	
	RF Connectors	SMA – female	
Operating Modes	Manual Attenuation Control Swept Attenuation – uni/bi directional – one time/repeat Profile		
Mechanical	Size	4.27 x 1.97 x 0.86 inches 108.5 x 50 x 21.8 millimeters	
	Weight	0.4 pounds 0.182 kilograms	





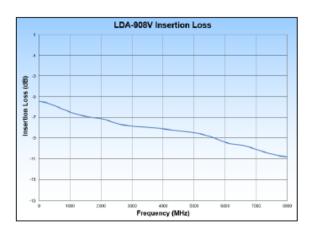


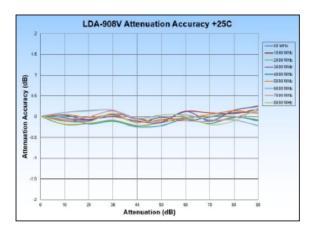
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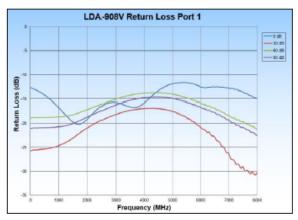




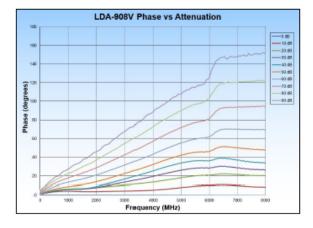
LDA-908V Performance Plots













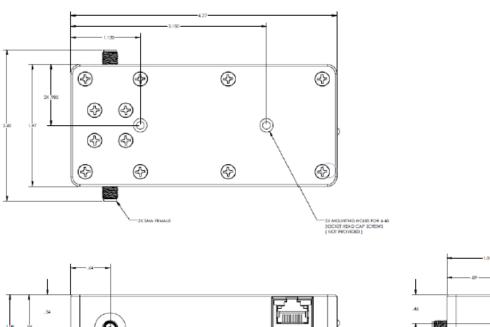


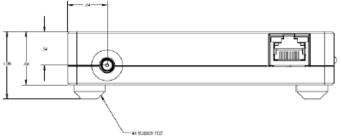


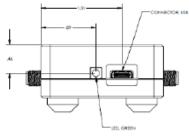




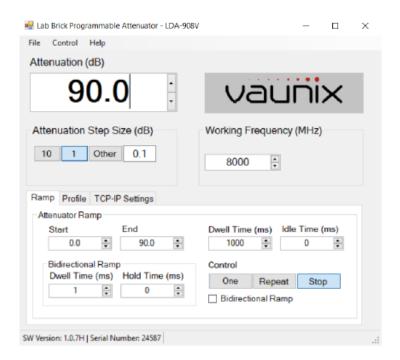
LDA-908V Mechanical Outline







LDA-908V USB Software Interface

















LDA-908V Ethernet Web Interface

