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#### PE70A2001

#### **Features**

- · Analog Controlled 60 dB Pin Diode Attenuator
- · 4 GHz to 8 GHz Frequency Range
- Insertion Loss 2.5 dB Max
- VSWR 2.0:1 Max
- · Input Power 20 dBm Operating

#### **Applications**

- · Electronic Warfare
- Test & Measurement
- · Military & Space

- Input Power 30 dBm Survival
- Switching Time 500 nsec
- Removable SMA Female Connectors
- 15 Pin Micro D Control Connector
- Radar
- · Military Communications Systems

#### **Description**

The PE70A2001 is an Analog Controlled 60 dB Pin Diode Attenuator operating from 4 GHz to 8 GHz, and over a temperature range of -55 Deg C to + 85 Deg C. The Input/Output RF Connectors are Removable SMA Female. The control connector is a 15 Pin Micro D, with a mating connector supplied.

#### Electrical Specifications (Values at +25°C, sea level)

Description	Minimum	Typical	Maximum	Units
Frequency Range	4		8	GHz
Attenuation Range	0		60	dB
			2.5	dB
VSWR			2:1	
RF Input Power		+20		dBm
Survival Power Rating			+30	dBm
		±0.5		dB
		±0.87		dB
		±1.5		dB
		±1.6		dB
Switching Time			500	ns
Switching Speed			500	ns
Analog Control		10		dB/Volt
Control Voltage	0		6	Volts
DC Power Supply				
12 to 15 VDC			125	mA
-12 to -15 VDC			50	mA
Attenuation Range	0		60	dB

#### **Mechanical Specifications**

Size

Length 2 in [50.8 mm]





### PE70A2001

Width1.8 in [45.72 mm]Height0.5 in [12.7 mm]Weight0.142 lbs [64.41 g]Input ConnectorSMA FemaleOutput ConnectorSMA FemalePower and Control15-Pin D-Subminiatur

#### **Environmental Specifications**

#### **Temperature**

Operating Range -55 to +85 deg C Storage Range -65 to +125 deg C MIL-STD-202F, METHOD 103B COND. B Humidity Shock MIL-STD-202F, METHOD 213B COND. B Vibration MIL-STD-202F, METHOD 204D COND. B Altitude MIL-STD-202F, METHOD 105C COND. B Temperature Cycle MIL-STD-202F, METHOD 107 Salt Spray MIL-STD-202F, METHOD 105C COND. B

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

#### Notes:

Values at +25 °C, sea level
 ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.

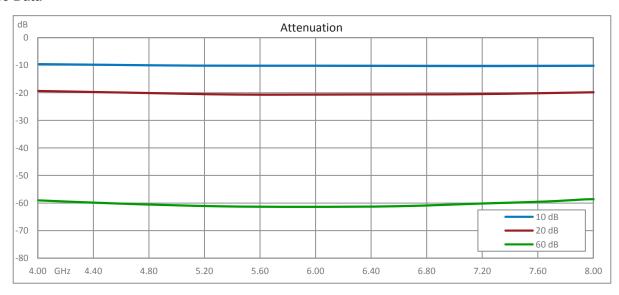




### PE70A2001

#### **Functional Block Diagram**

#### **Performance Data**





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### PE70A2001

#### **10dB Attenuation**



#### **20dB Attenuation**





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### PE70A2001

#### **40dB** Attenuation



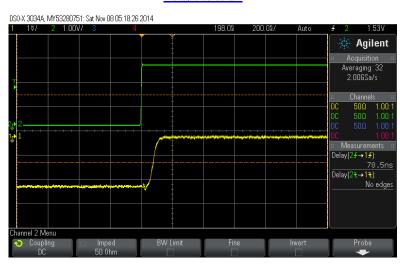
#### **60dB** Attenuation



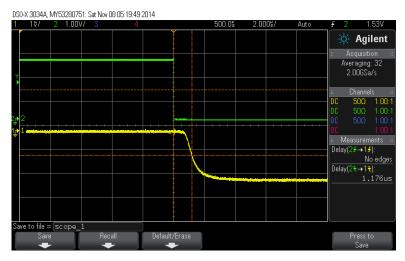


### PE70A2001

#### Delay 0 to 60 dB



#### Delay 60 to 0 dB



Channel 1 (Yellow): RF output

Channel 2 (Green): TTL Input from Signal Generator





#### PE70A2001

Voltage Variable PIN Diode Attenuator, 0 to 60 dB, 4 GHz to 8 GHz, SMA, 15-Pin D-Subminiature Control from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Voltage Variable PIN Diode Attenuator, 0 to 60 dB, 4 GHz to 8 GHz, SMA, 15-Pin D-Subminiature Control PE70A2001

URL: https://www.pasternack.com/60db-voltage-variable-attenuator-pin-diode-8-ghz-sma-pe70a2001-p.aspx

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

