

# PASTIFICACION A PROPERTIES A PR

# 0 to 60 dB Voltage Variable Attenuator, PIN Diode, 2 GHz To 4 GHz, SMA

#### **TECHNICAL DATA SHEET**

PE70A2000

The PE70A2000 is an Analog Controlled 60 dB Pin Diode Attenuator operating from 2 GHz to 4 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.

#### **Features**

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

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

#### **Applications**

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

Military Communications Systems

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

Description	Minimum	Typical	Maximum	Units
Frequency Range	2		4	GHz
Mean Attenuation Range	0		60	dB
Insertion Loss				
			2	dB
VSWR			2:1	
Power Rating		+20		dBm
Survival Power Rating			+30	dBm
Attenuation Flatness				
10 dB		±0.45		dB
20 dB		±0.8		dB
40 dB		±1.5		dB
60 dB		±1.6		dB
Switching Time			500	ns
Analog Control		10		dB/Volt
DC Power Supply				
12 to 15 VDC			125	mA
-12 to -15 VDC			50	mA

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 0 to 60 dB Voltage Variable Attenuator, PIN Diode, 2 GHz To 4 GHz, SMA PE70A2000



Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com



## 0 to 60 dB Voltage Variable Attenuator, PIN Diode, 2 GHz To 4 GHz, SMA

#### **TECHNICAL DATA SHEET**

PE70A2000

#### **Mechanical Specifications**

Size

Length 2 in [50.8 mm] Width 1.8 in [45.72 mm] 0.5 in [12.7 mm] Height Weight 0.2 lbs [90.72 g] Input Connector SMA Female **Output Connector SMA Female** 

#### **Environmental Specifications**

**Temperature** 

Operating Range -55 to +85 deg C Storage Range -65 to +125 deg C

Environment MIL-STD-202F, METHOD 107 Humidity MIL-STD-202F, METHOD 103B COND. B Shock MIL-STD-202F, METHOD 213B COND. B Vibration MIL-STD-202F, METHOD 204D COND. B Altitude MIL-STD-202F, METHOD 105C COND. B

MIL-STD-202F, METHOD 107

Compliance Certifications (visit www.Pasternack.com for current document)

Not RoHS Compliant

Temperature Cycle

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 0 to 60 dB Voltage Variable Attenuator, PIN Diode, 2 GHz To 4 GHz, SMA PE70A2000



© 2015 Pasternack Enterprises All Rights Reserved





# 0 to 60 dB Voltage Variable Attenuator, PIN Diode, 2 GHz To 4 GHz, SMA

#### **TECHNICAL DATA SHEET**

PE70A2000

#### **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.

#### **10dB Attenuation**



#### **20dB Attenuation**



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 0 to 60 dB Voltage Variable Attenuator, PIN Diode, 2 GHz To 4 GHz, SMA PE70A2000



© 2015 Pasternack Enterprises All Rights Reserved

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451





## 0 to 60 dB Voltage Variable Attenuator, PIN Diode, 2 GHz To 4 GHz, SMA

#### **TECHNICAL DATA SHEET**

PE70A2000

#### **40dB** Attenuation



#### **60dB Attenuation**



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 0 to 60 dB Voltage Variable Attenuator, PIN Diode, 2 GHz To 4 GHz, SMA PE70A2000





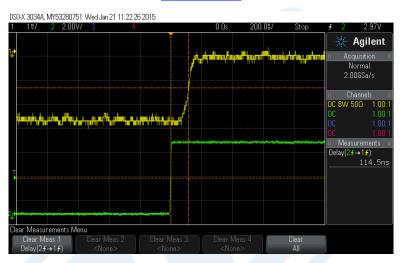


# 0 to 60 dB Voltage Variable Attenuator, PIN Diode, 2 GHz To 4 GHz, SMA

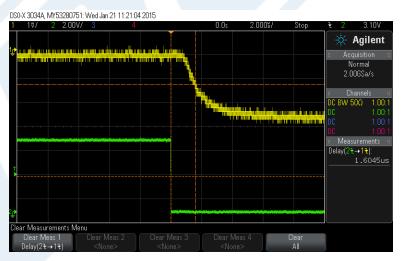
#### **TECHNICAL DATA SHEET**

#### PE70A2000

#### Delay 0 to 60 dB



#### Delay 60 to 0 dB



Channel 1 (Yellow): RF output

Channel 2 (Green): TTL Input from Signal Generator

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 0 to 60 dB Voltage Variable Attenuator, PIN Diode, 2 GHz To 4 GHz, SMA PE70A2000







# 0 to 60 dB Voltage Variable Attenuator, PIN Diode, 2 GHz To 4 GHz, SMA

#### **TECHNICAL DATA SHEET**

PE70A2000

0 to 60 dB Voltage Variable Attenuator, PIN Diode, 2 GHz To 4 GHz, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% 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: 0 to 60 dB Voltage Variable Attenuator, PIN Diode, 2 GHz To 4 GHz, SMA PE70A2000

URL: http://www.pasternack.com/60db-voltage-variable-attenuator-pin-diode-4-ghz-sma-pe70a2000-p.aspx

The information contained in 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 implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451





ISO 9001 : 2008 Registered

## PE70A2000 CAD Drawing

0 to 60 dB Voltage Variable Attenuator, PIN Diode, 2 GHz To 4 GHz, SMA

