



0 to 60 dB Voltage Variable Attenuator, PIN Diode, 8 GHz To 18 GHz, SMA

TECHNICAL DATA SHEET

PE70A2003

The PE70A2003 is a 60 dB PIN Diode Attenuator that operates from 8 GHz to 18 GHz. The Input/Output RF Connectors are Removable SMA Female. The control connector is a 15 Pin Micro D, with a mating connector supplied. The Attenuator has an Insertion Loss of 3.7 dB max, a typical IP1dB of +20 dBm and a survival Power Max of +30 dBm.

Features

- PIN Attenuator
- 8 GHz to 18 GHz Frequency Range
- 60 dB Attenuation
- 0 - 6 VDC Control Voltage Range
- Removeable SMA Female Connectors

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	8		18	GHz
Mean Attenuation Range	0		60	dB
Insertion Loss			3.7	dB
VSWR			2:1	
Power Rating		+20		dBm
Survival Power Rating			+30	dBm
Attenuation Flatness				
10 dB		±0.8		dB
20 dB		±1.1		dB
40 dB		±1.5		dB
60 dB		±1.6		dB
Switching Time			500	ns
Control	0		6	Volts
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, 8 GHz To 18 GHz, SMA PE70A2003](#)



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Mechanical Specifications

Size

Length	2 in [50.8 mm]
Width	1.81 in [45.97 mm]
Height	0.5 in [12.7 mm]
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
Temperature Cycle	MIL-STD-202F, METHOD 107

Compliance Certifications (visit www.Pasternack.com for current document)
Not RoHS Compliant

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.

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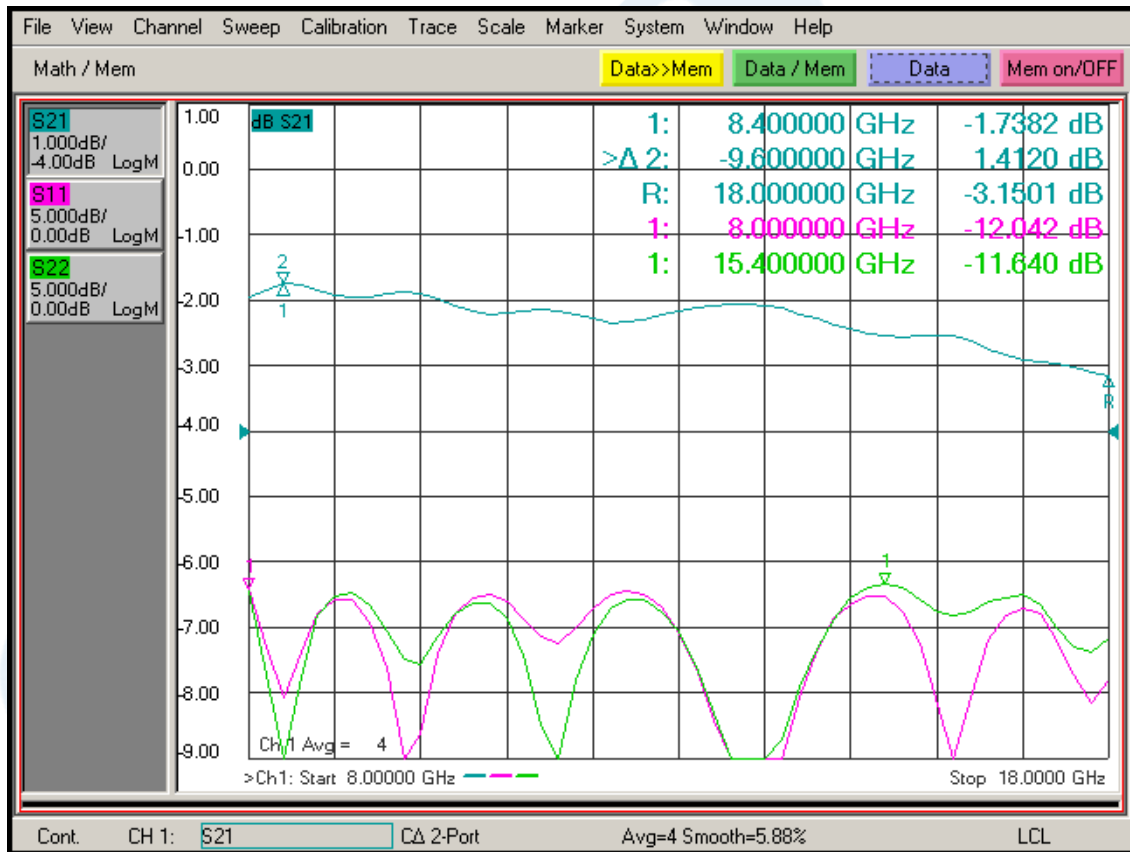


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Performance Data

Insertion Loss and Return Loss



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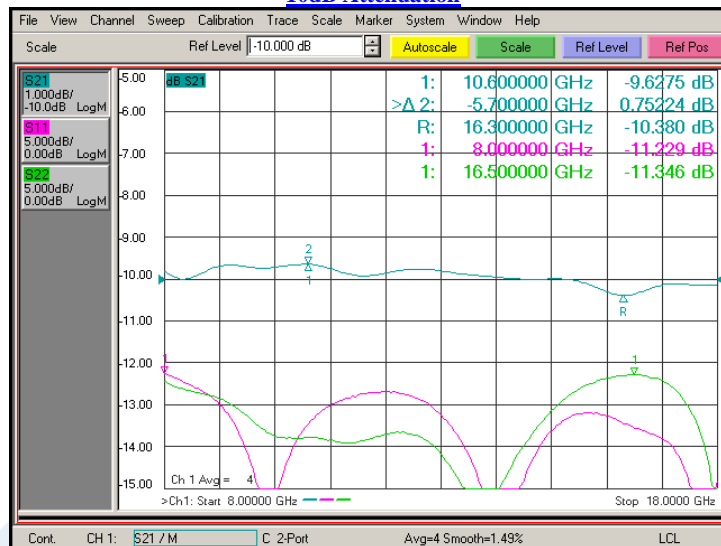


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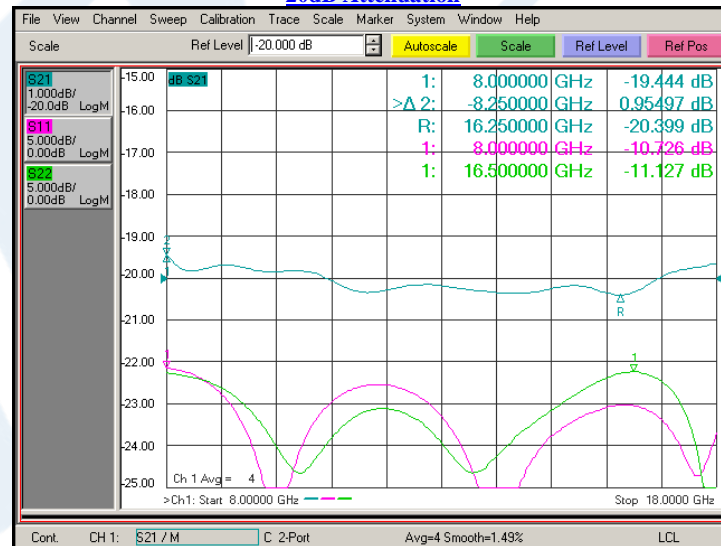
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10dB Attenuation



20dB Attenuation



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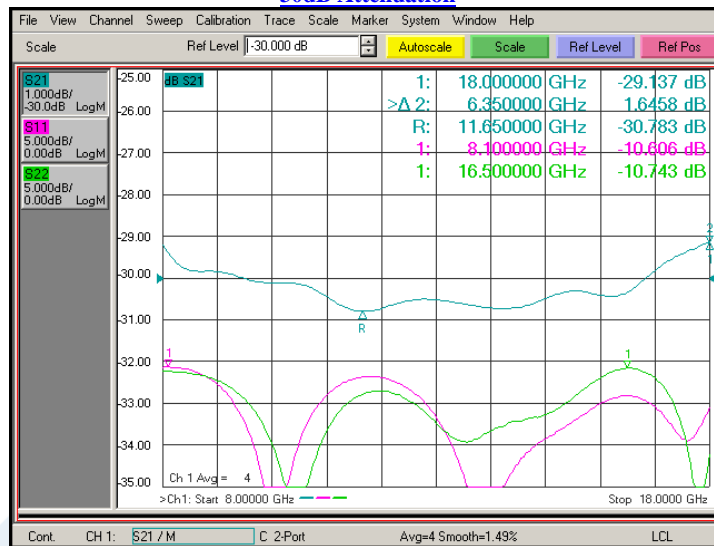


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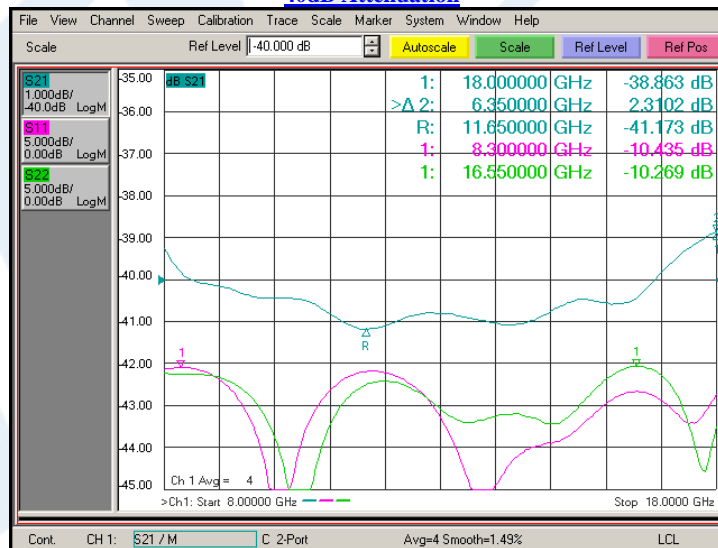
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30dB Attenuation



40dB Attenuation



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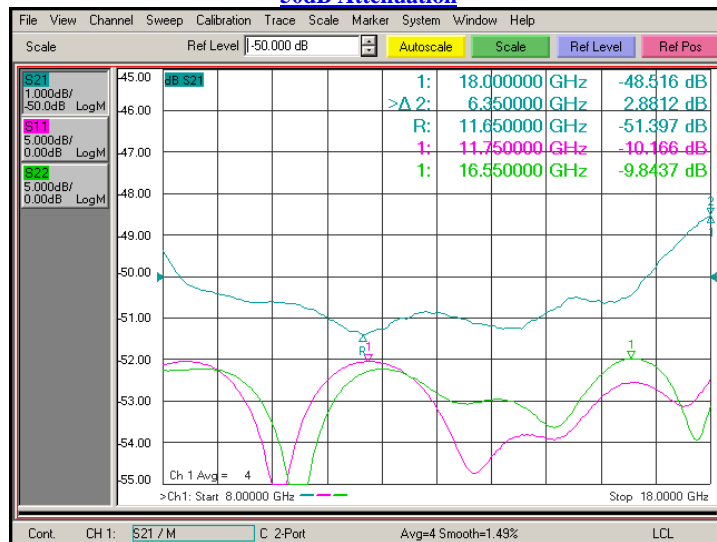


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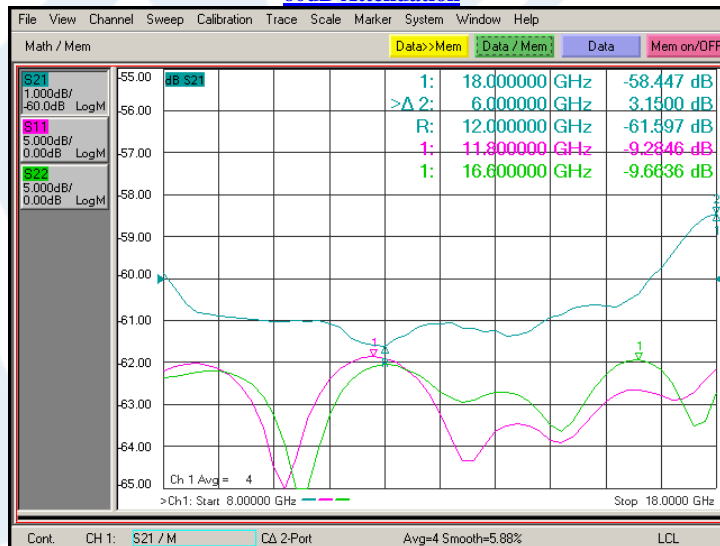
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50dB Attenuation



60dB Attenuation



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0 to 60 dB Voltage Variable Attenuator, PIN Diode, 8 GHz To 18 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.

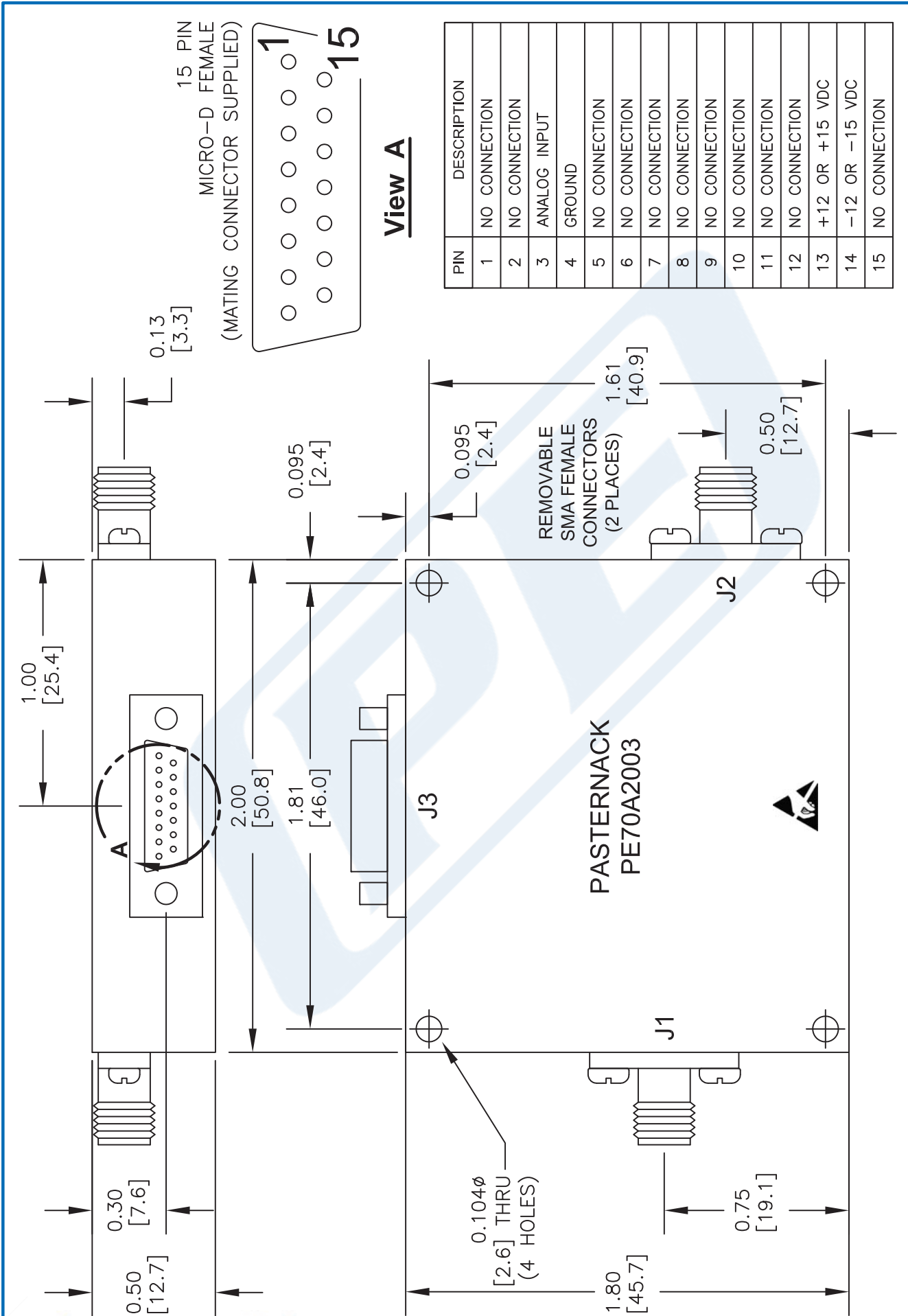
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

PE70A2003 CAD Drawing

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NOTES:
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
 3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE
PE70A2003

FSCM NO. 53919

CAD FILE 051815

SCALE N/A

SIZE A

2233

PE PASTERNAK
 THE ENGINEER'S RF SOURCE

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