



TECHNICAL DATA SHEET

PE70A3900

The PE70A3900 is a 5 Bit Programmable 30 dB Pin Diode Attenuator with Step Resolution of 1 dB over the Operating Frequency Range from 0.1 GHz to 18 GHz. This attenuator is controlled and powered via USB 2.0 with driverless installation, so no external power supply is required.

Features

- Programmable 30 dB Pin Diode Attenuator
- 0.1 GHz to 18 GHz Frequency Range
- 30 dB Attenuation Range

- Step Resolution of 1 dB
- Insertion Loss 5 dB Typ

Applications

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

• Military Communications Systems

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

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.1		18	GHz
Mean Attenuation Range	0		30	dB
Insertion Loss		5		dB
Input VSWR		2.5:1		
Output VSWR		2.5:1		
Power Rating			+20	dBm
Accuracy of Attenuation				
0 dB to 30 dB		±2.5		dB
Step Size	1			dB

Mechanical Specifications

Size

 Length
 2.25 in [57.15 mm]

 Width
 1 in [25.4 mm]

 Height
 0.33 in [8.38 mm]

 Weight
 0.07 lbs [31.75 g]

 Connector 1
 SMA Female

 Connector 2
 SMA Female

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C Storage Range -55 to +125 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 30 dB Programmable USB Controlled Attenuator, SMA Female to SMA Female, 1 dB Steps From 100 MHz to 18 GHz PE70A3900

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





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

Not RoHS Compliant REACH Compliant

12/17/2014

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.//Heat Sink Required for Proper Operation, Unit is cooled by conduction to heat sink.

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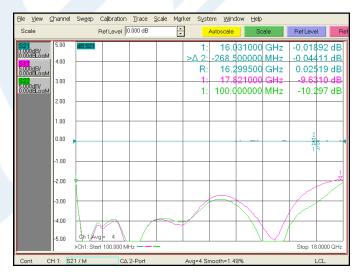
PE70A3900

Performance Data

Insertion Loss & Return Loss



0dB Attenuation



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5dB Attenuation



10dB Attenuation



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15dB Attenuation



20dB Attenuation



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25dB Attenuation



30dB Attenuation



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30 dB Programmable USB Controlled Attenuator, SMA Female to SMA Female, 1 dB Steps From 100 MHz to 18 GHz 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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URL: https://www.pasternack.com/30db-programmable-usb-controlled-sma-female-sma-female-0-watts-attenuator-pe70a3900-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.

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PE70A3900 CAD Drawing

30 dB Programmable USB Controlled Attenuator, SMA Female to SMA Female, 1 dB Steps From 100 MHz to 18 GHz

