



TECHNICAL DATA SHEET

PE70A3901

The PE70A3901 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 40 GHz. The Attenuator is controlled and powered via USB 2.0 with drivers installation, so no external power supply is required.

Features

- Programmable 30 dB Pin Diode Attenuator
- 0.1 GHz to 40 GHz Frequency Range
- 30 dB Attenuation Range

- Step Resolution of 1 dB
- Insertion Loss 5 dB Typ, 8 dB typ to 40 GHz
- 2.92mm Female Input/Output connectors

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		40	GHz
Mean Attenuation Range	0		30	dB
Input VSWR		2.5:1		
Output VSWR		2.5:1		
Power Rating			+23	dBm
Accuracy of Attenuation				dB
to 30 dB		±2.5		dB
Step Size	1			dB

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.1 to 20	20 to 40				GHz
Insertion Loss, Typ	5	8				dB

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, 2.92mm Female to 2.92mm Female, 1 dB Steps From 100 MHz to 40 GHz PE70A3901

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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Mechanical Specifications

Size

 Length
 2.25 in [57.15 mm]

 Width
 1 in [25.4 mm]

 Height
 0.33 in [8.38 mm]

 Weight
 0.075 lbs [34.02 g]

 Connector 1
 2.92mm Female

 Connector 2
 2.92mm Female

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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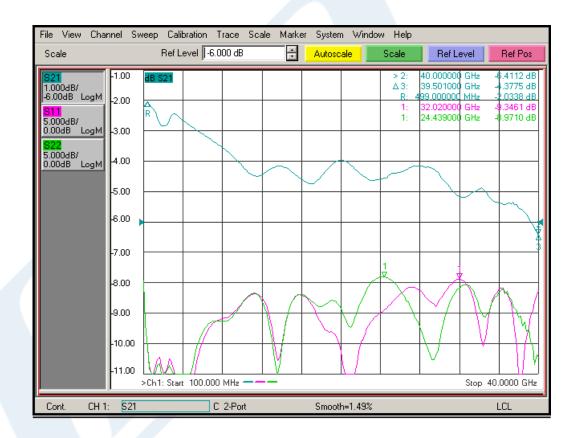


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Performance Data

Insertion Loss & Return Loss



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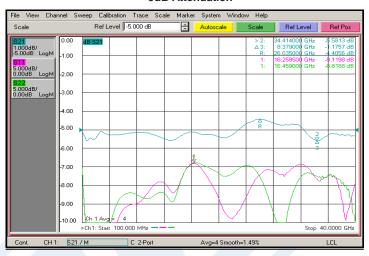




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5dB Attenuation



10dB Attenuation



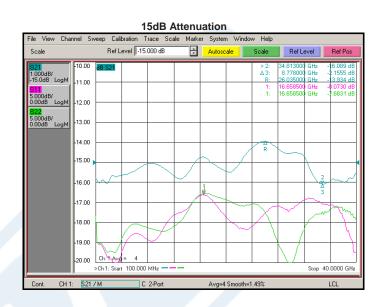
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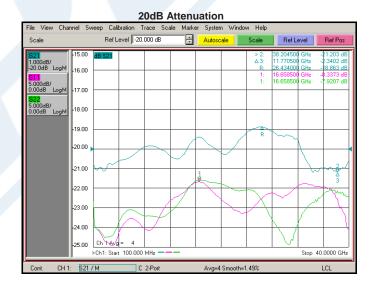




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30 dB Programmable USB Controlled Attenuator, 2.92mm Female to 2.92mm Female, 1 dB Steps From 100 MHz to 40 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/30db-programmable-usb-controlled-2.92mm-female-2.92mm-female-0-watts-attenuator-pe70a3901-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.

PE70A3901 CAD Drawing

30 dB Programmable USB Controlled Attenuator, 2.92mm Female to 2.92mm Female, 1 dB Steps From 100 MHz to 40 GHz

