



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

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
- Test & Measurement
- Military & Space
- 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
Insertion Loss				
20 GHz		5		dB
40 GHz		8		dB
Input VSWR		2.5:1		
Output VSWR		2.5:1		
Accuracy of Attenuation to 30 dB		±2.5		dB
Step Size	1			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](#)



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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]
Connector 1	2.92mm Female
Connector 2	2.92mm Female

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.

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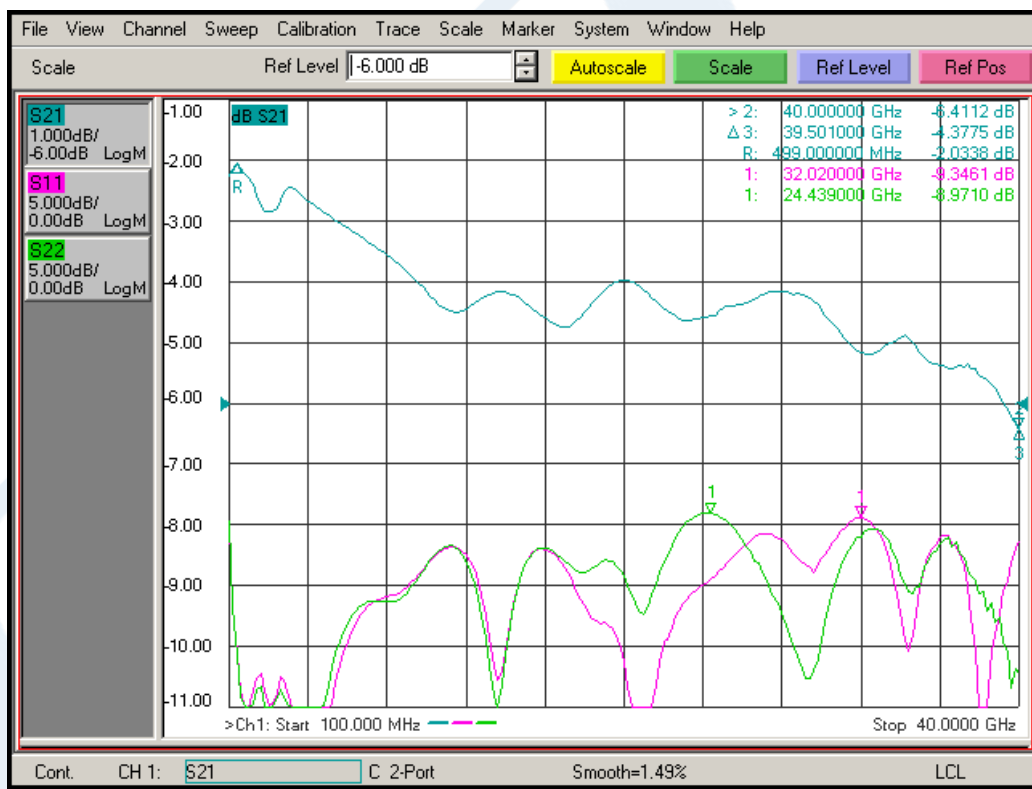
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Performance Data

Insertion Loss & Return Loss



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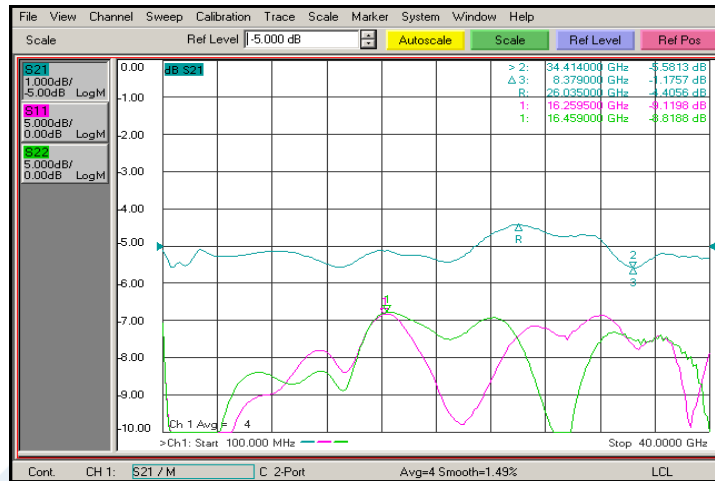


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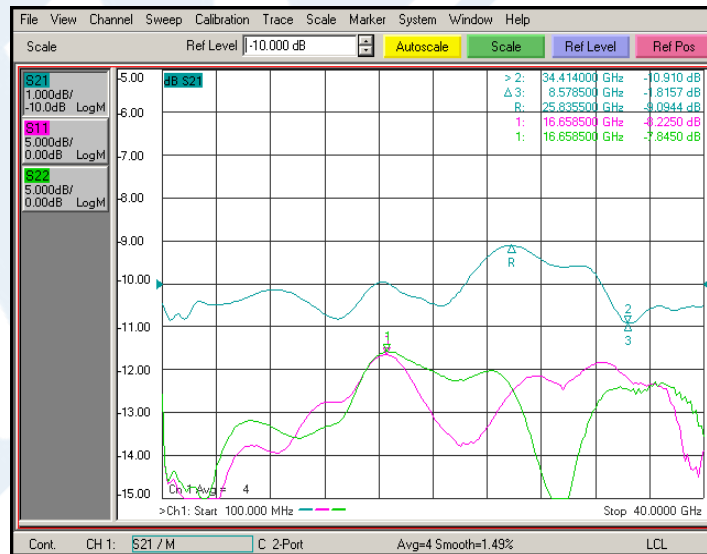
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5dB Attenuation



10dB Attenuation



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15dB Attenuation



20dB Attenuation



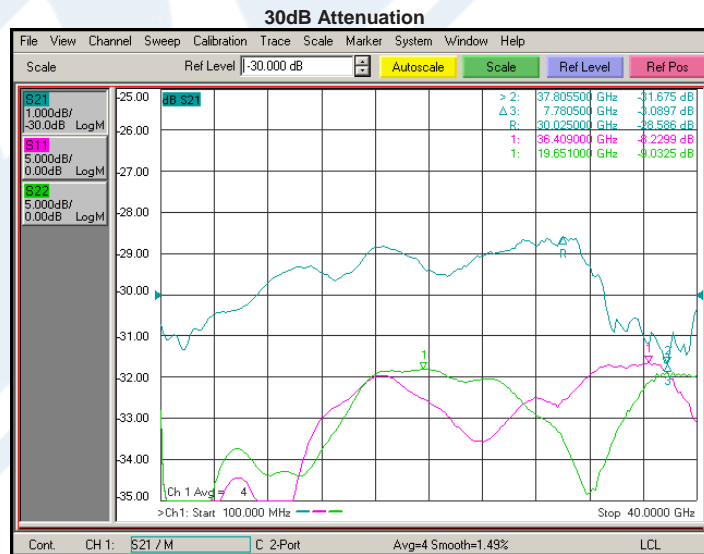
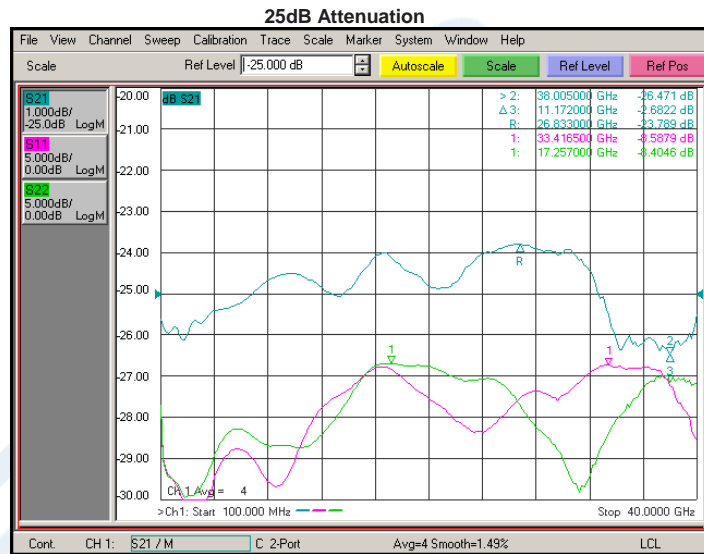
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30 dB Programmable USB Controlled Attenuator, 2.92mm Female To 2.92mm Female, 1 dB Steps From 100 MHz To 40 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

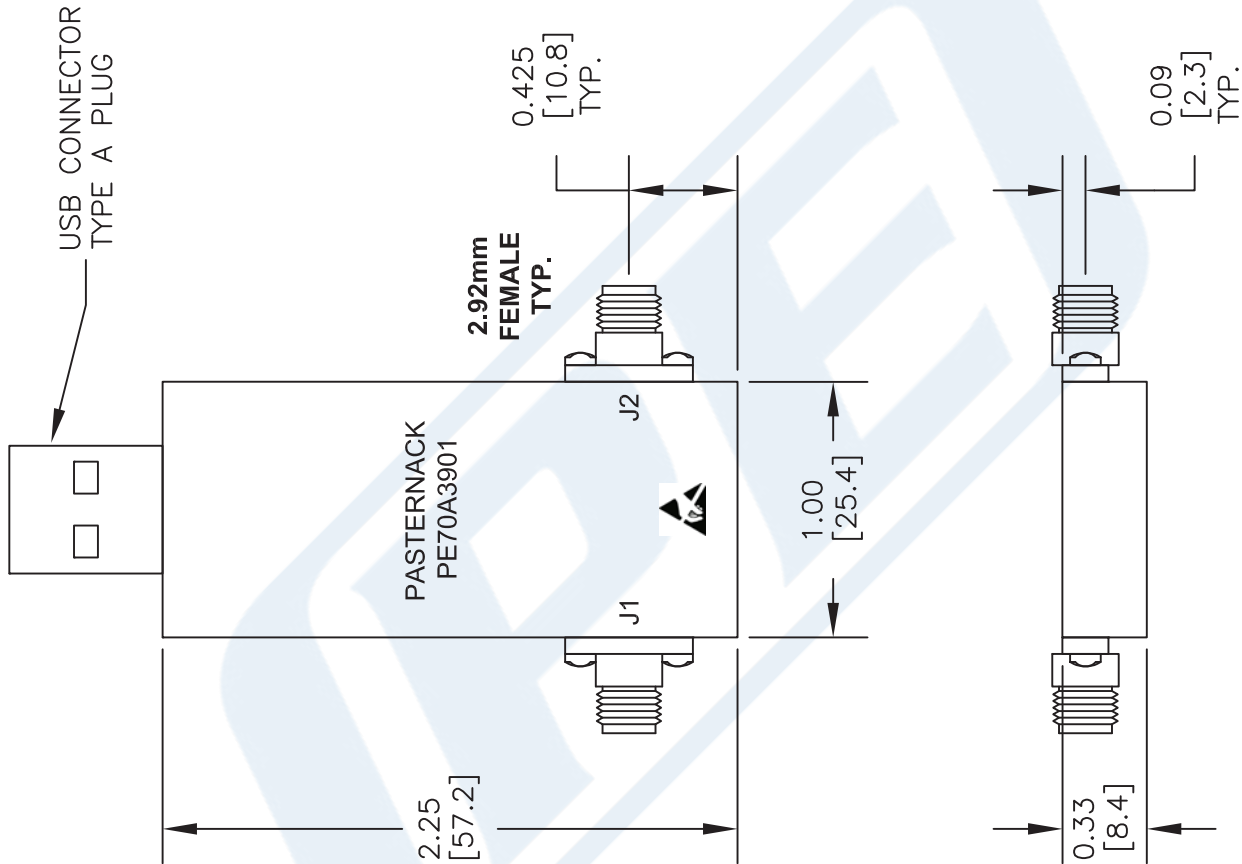
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

PE70A3901 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

PE70A3901

FSCM NO. 53919

CAD FILE 031814

SCALE N/A

SIZE A

2233

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THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com