



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

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
- 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		18	GHz
Mean Attenuation Range	0		30	dB
Insertion Loss		5		dB
Input VSWR		2.5:1		
Output VSWR		2.5:1		
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]

Environmental Specifications

Temperature

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

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

Not RoHS Compliant

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](#)



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Plotted and Other Data

Notes:

- Values at +25 °C, sea level

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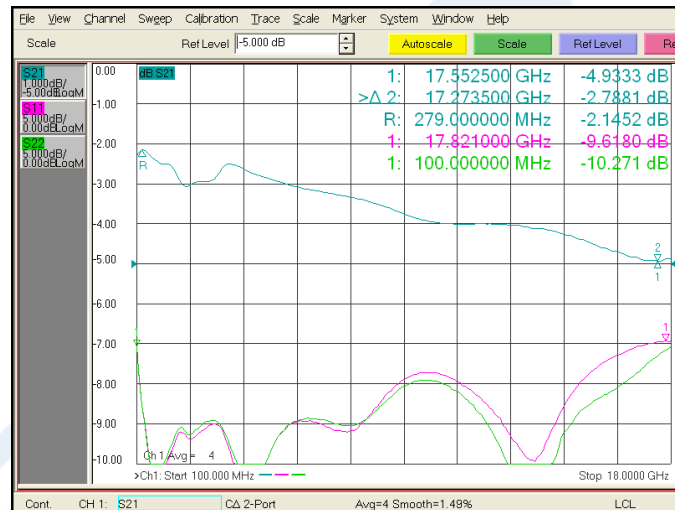
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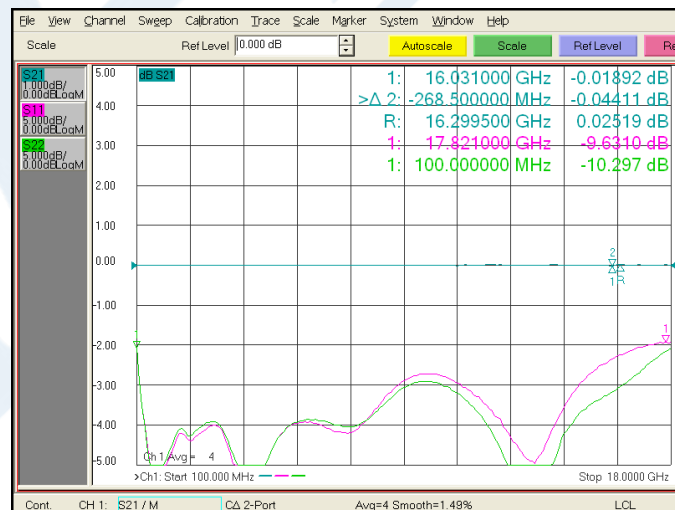
PE70A3900

Performance Data

Insertion Loss & Return Loss



0dB Attenuation



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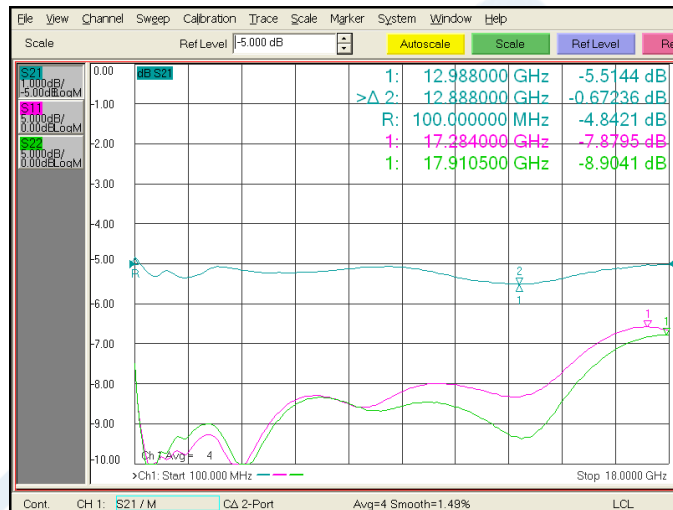


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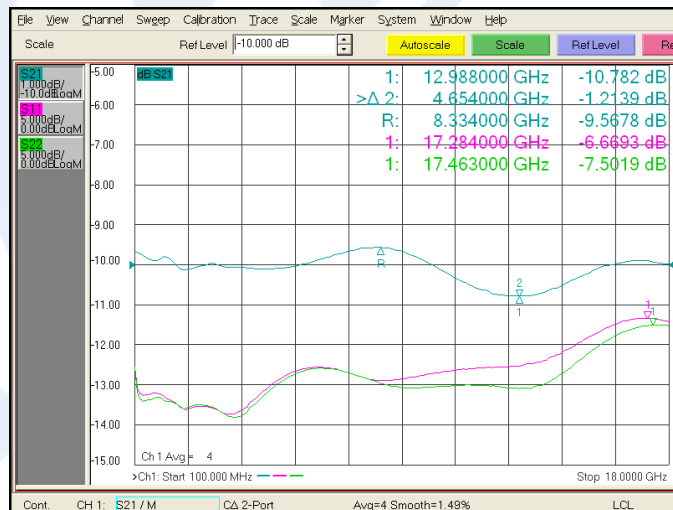
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5dB Attenuation



10dB Attenuation



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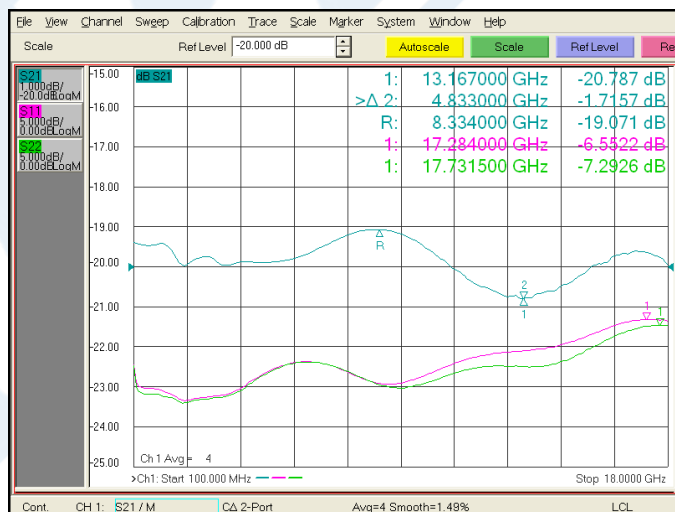
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15dB Attenuation



20dB Attenuation



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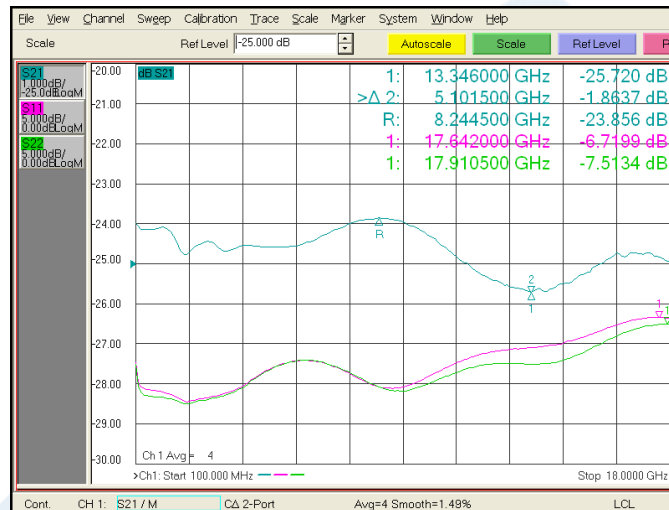


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25dB Attenuation



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.

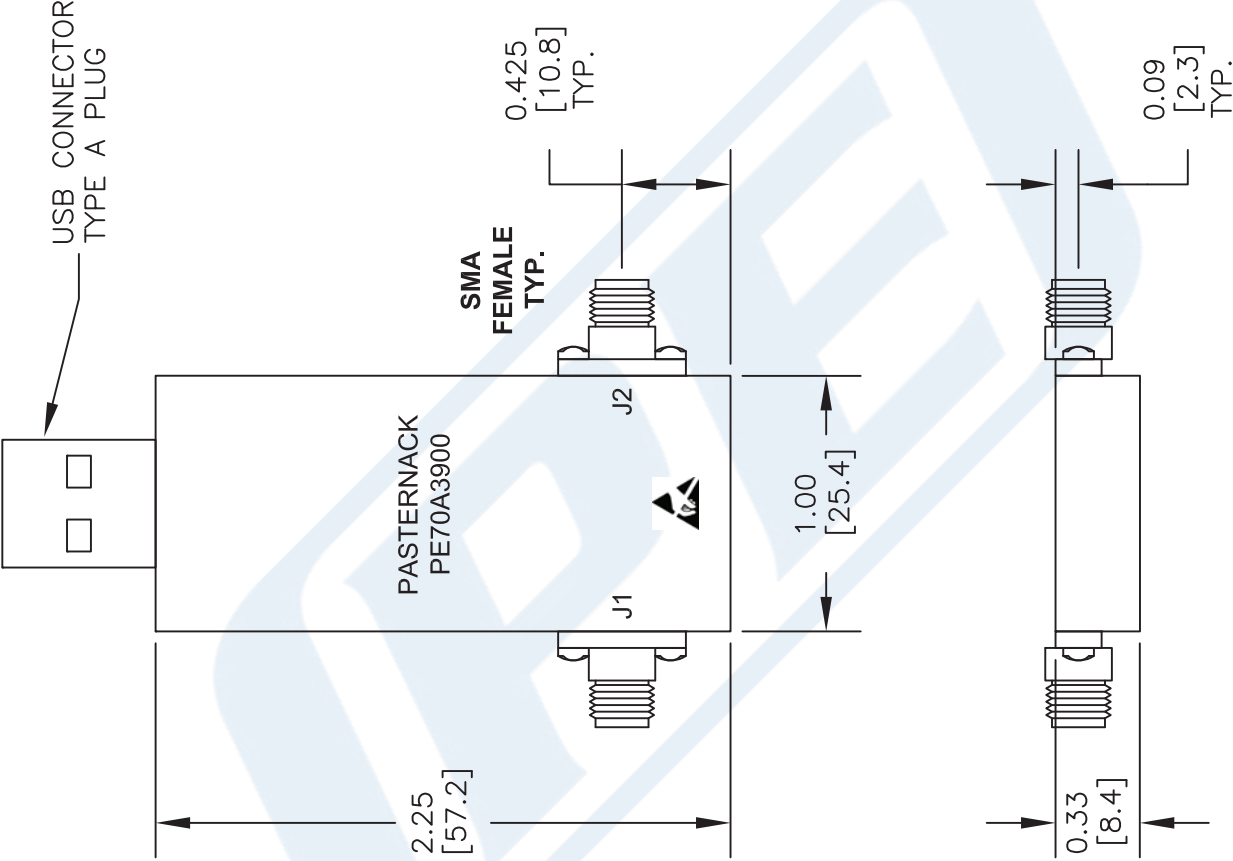
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

PE70A3900 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
PE70A3900

FSCM NO. 53919

CAD FILE 031814

SCALE N/A

SIZE A

2233

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