

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

PE70A3900



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

Description

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.

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

Description	Min	Typ	Max	Unit
Frequency Range	0.1		18	GHz
Impedance		50		Ohms
Attenuation Range	0		30	dB
Insertion Loss		5		dB
VSWR		2.5:1		
Output VSWR		2.5:1		
Power Rating			20	dBm
Survial Power Average -40 to +85 deg C				
Attenuation Flatness @ 30 dB				
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	0.072 lbs [32.66 g]
Connector 1	SMA Female
Connector 2	SMA Female

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
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Storage Range

-55 to +125 deg C

Compliance Certifications (see [product page](#) for current document)

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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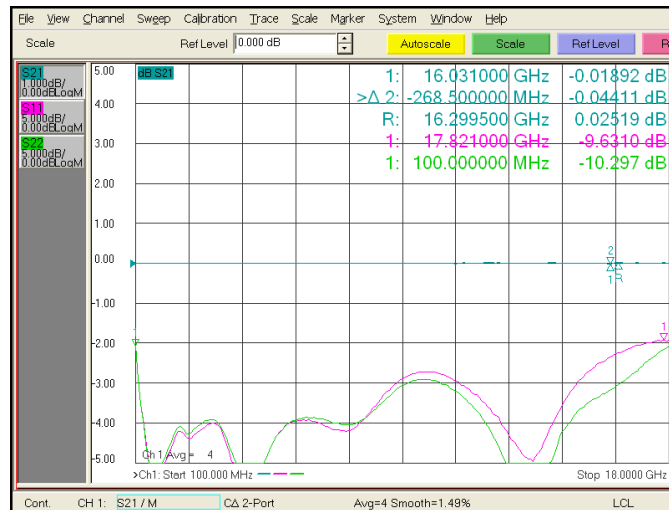


Typical Performance Data

Insertion Loss & Return Loss



0dB Attenuation

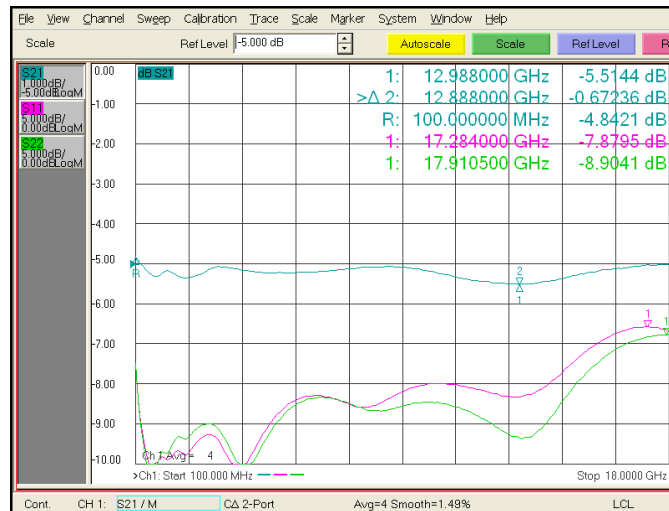


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5dB Attenuation



10dB Attenuation

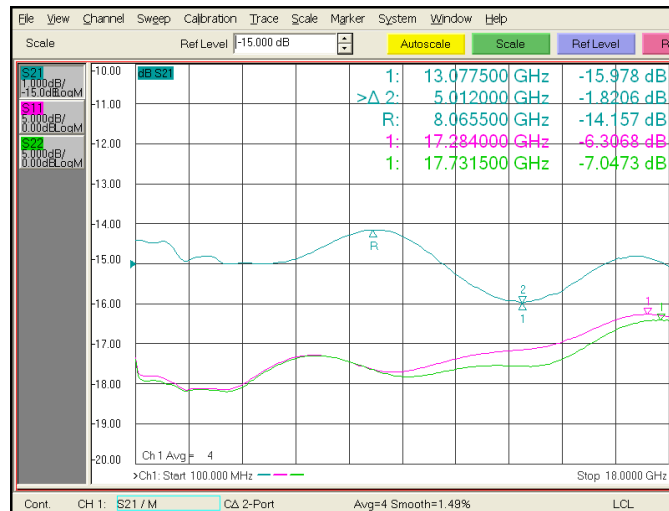


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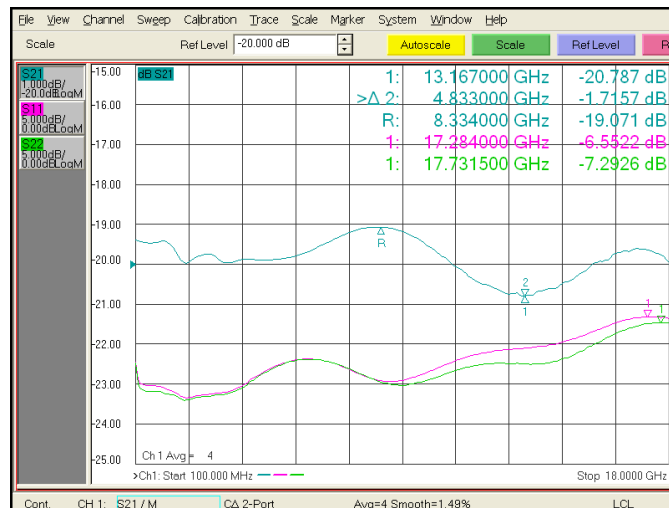
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15dB Attenuation



20dB Attenuation

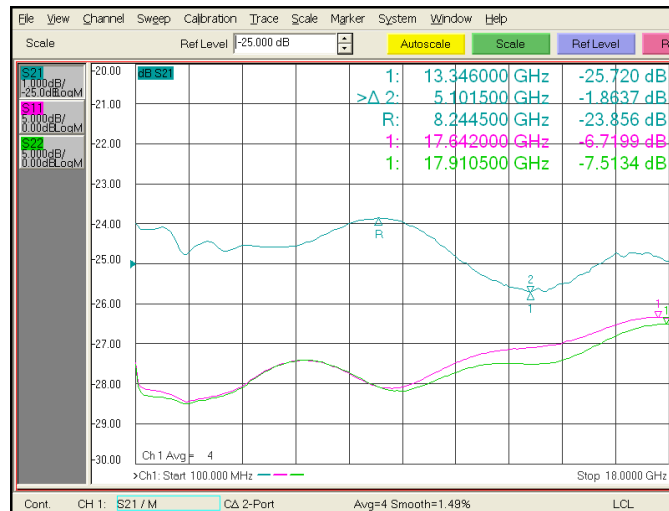


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25dB Attenuation



30dB Attenuation



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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](https://www.pasternack.com/30db-programmable-usb-controlled-sma-female-sma-female-0-watts-attenuator-pe70a3900-p.aspx)

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PE70A3900 CAD Drawing

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