

PE70A5013

Features

- · 200 MHz to 6000 MHz Bandwidth
- · Manual, Ethernet, or RS-232 Controlled
- 0-95 dB attenuation
- · 1 dB Step Size
- 50 Ohms
- · Swithing Speed: 1 microsec
- · 2 Indivitually Controlled Programmable Step Attenuators

Applications

- Engineering Test & Measurement (ATE) Labs
- · Communications Systems
- · Military Radio

- · Insertion Loss: 8 dB typ
- Attenuation Accuracy: +/- 1 dB typ
- Max Average Pin: 20 dBm
- +12 Vdc supply (AC/DC Transformer Included)
- SMA female connectors
- Remote Control: Ethernet RJ45 port or RS-232 port in rear
- Downloadable User Manual
- Radar
- · Wimax & 3G Simulators
- · Wireless Fading Simulation

Description

The PE70A5013 is a 50 ohm Benchtop Programmable Step Attenuator assembly which operates over the frequency range of 200 MHz to 6000 MHz. This instrument has 2 indivitually controlled solid state programmable attenuators that each have a range from 0 to 95 dB. Insertion loss is 8.0 dB typical with maximum average input power of +20 dBm. Additional typical performance includes +/- 1.0 dB attenuation accuracy and switching speed of 1 microsecond. The DC supply is +12 Vdc with a 100-240 VAC AC/DC transformer included. Note that both attenuators can be connected in series to attain higher attenuation levels, but this perofrmacne is not guaranteed. The design features 2 lever swtiches on the front panel that includes digital readouts and SMA female RF input/output ports. Both switches are manually adjustable in 1 dB step sizes with either tap to step or hold to jog functions. These 2 swtiches can work simultaineously to perform manual handover tests. The design can also be command controlled remotely by exicutable test scripts using Ethernet (RJ45 Female) or RS-232 (serial contorl) connector interfaces. The Ethernet, RS-232, and manual interfaces can all be utilzed simultaneously without blocking other users from using the test system. The firmware can handle up to 12 network connections. A comprehensive user manual is available to download.

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

Description	Min	Тур	Max	Unit
Frequency Range	0.2		6	GHz
Impedance		50		Ohms
Attenuation Range	0		95	dB
Insertion Loss		8	8.5	dB
VSWR			2:1	
Survial Power Average 0 to +50 deg C			+25	dBm
Power Handling Capacity			+20	dBm
Accuracy of Attenuation				
1 dB to 3 dB		±0.5		dB
4 dB to 7 dB		±0.75		dB
8 dB to 11 dB		±1		dB
12 dB to 95 dB is ±1.25 dB or 4% which-				
ever is greater				
Step Size		1		dB
Switching Time		1		us





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Mechanical Specifications

Size

Weight 4.561 lbs [2.07 kg]

Connector 1 Field Replaceable SMA Female
Connector 2 Field Replaceable SMA Female

Environmental Specifications

Temperature

Operating Range 0 to +50 deg C

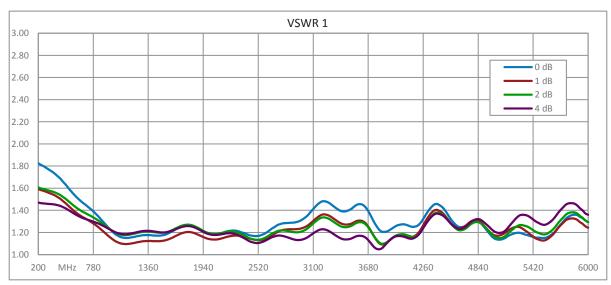
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

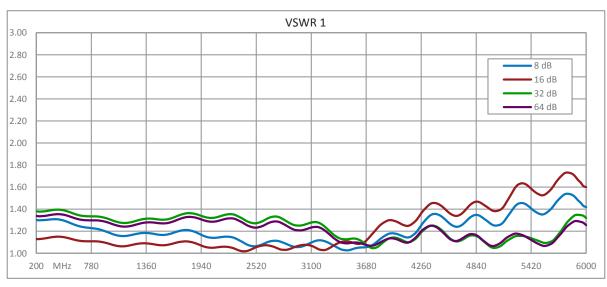
- · Values at 25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.

Typical Performance Data



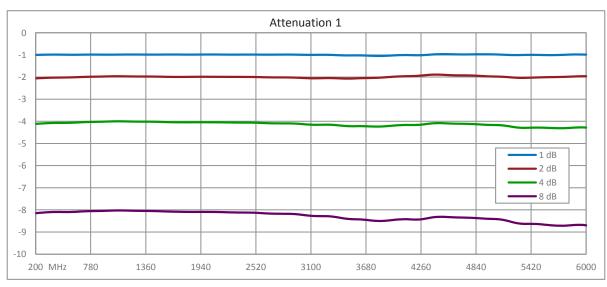


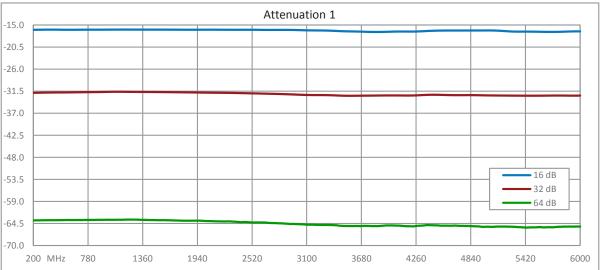




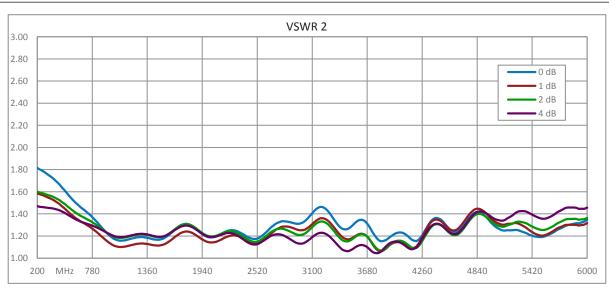


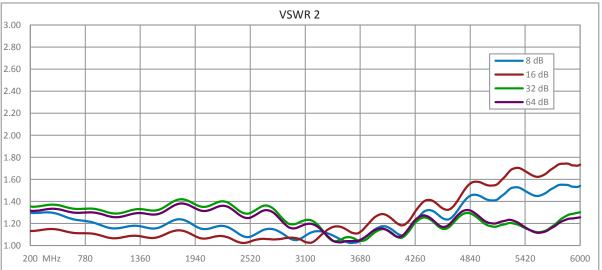








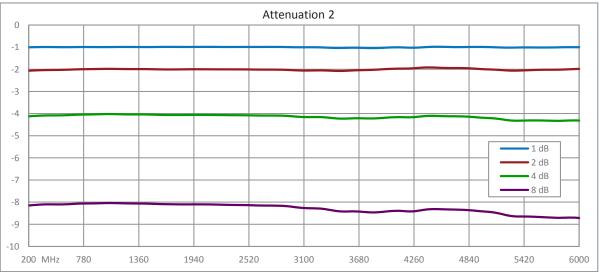








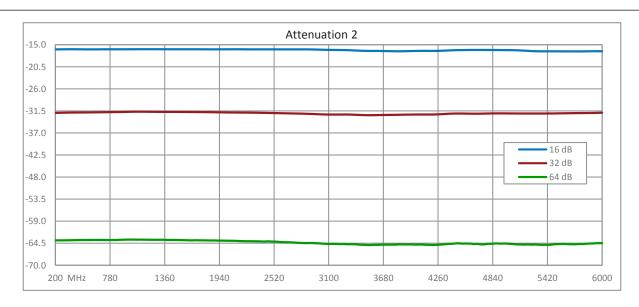








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Bench-Top 95 dB Programmable TTL Controlled Attenuator, SMA Female to SMA Female, 1 dB Steps From 200 MHz to 6 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Bench-Top 95 dB Programmable TTL Controlled Attenuator, SMA Female to SMA Female, 1 dB Steps From 200 MHz to 6 GHz PE70A5013

URL: https://www.pasternack.com/bench-top-95db-ttl-controlled-sma-female-0-watts-attenuator-pe70a5013-p.aspx

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE70A5013 CAD Drawing

Bench-Top 95 dB Programmable TTL Controlled Attenuator, SMA Female to SMA Female, 1 dB Steps From 200 MHz to 6 GHz

