



6 Bit Relay Controlled Programmable Attenuator, 63 dB
Up to 1,000 MHz, 1 dB Steps, +12V, SMA Female

TECHNICAL DATA SHEET

PE70A8000

The PE70A8000 is a 6 Bit Relay Programmable Attenuator which operates over the frequency range of DC to 1000 MHz. The 50 ohm design has an attenuation range that covers 0 to 63 dB in 1 dB steps. Attenuation steps are 1, 2, 4, 8, 16, and 32 dB. Insertion loss is 1.5 dB max with a maximum RF input power 0.5 Watt average and 100 Watts peak. Additional typical performance includes switching speed of 6 milliseconds. The DC supply is +12 Vdc @ 15 mA per relay. The compact and rugged package design supports SMA female RF input/output connectors and DC connector solder terminals. Operational temperature is -20°C to +85°C.

Features

- 6 Bit Relay Programmable Attenuator
- DC to 1000 MHz Bandwidth
- 0-63 dB attenuation
- 1 dB Step Size
- 50 Ohms
- Switching Speed: 6 milliseconds
- Insertion Loss: 1.5 dB max
- Attenuation Accuracy: +/- 0.2 dB
- Max Pin 0.5 watts average, 100 watts peak
- DC Supply: +12 Vdc @ 15 mA per relay
- SMA female connectors

Applications

- Electronic Warfare
- Test & Measurement
- Military and Wireless Communications Systems
- Military & Space
- Radar

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

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
Mean Attenuation Range	0		63	dB
Insertion Loss			1.5	dB
Input VSWR			1.25:1	
Power Rating			+27	dBm
Accuracy of Attenuation ±0.2 dB or 2% whichever is greater				
Step Size	1			dB
Switching Time			6	ms
DC Power Supply @ 15 mA		12		Volts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [6 Bit Relay Controlled Programmable Attenuator, 63 dB Up to 1,000 MHz, 1 dB Steps, +12V, SMA Female PE70A8000](#)



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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 0.5	0.5 to 1				GHz
Insertion Loss, Max	0.8	1.5				dB

Electrical Specification Notes:
1, 2, 4, 8, 16, and 32 dB

Mechanical Specifications
Size

Connector 1 SMA Female
Connector 2 SMA Female

Environmental Specifications

Temperature

Operating Range -20 to +85 deg C
Storage Range -65 to +150 deg C

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

Plotted and Other Data

Notes:

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Performance Data



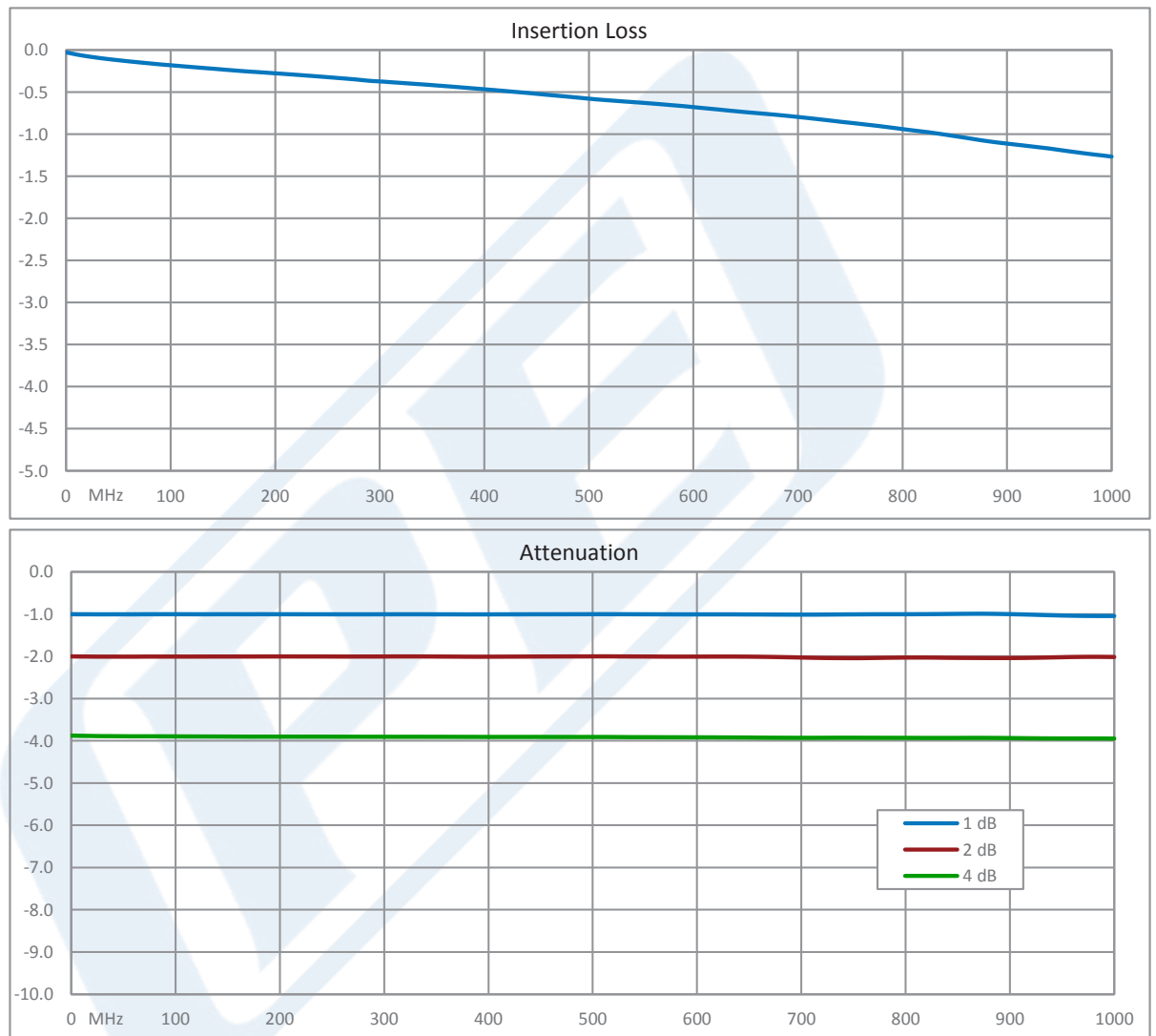
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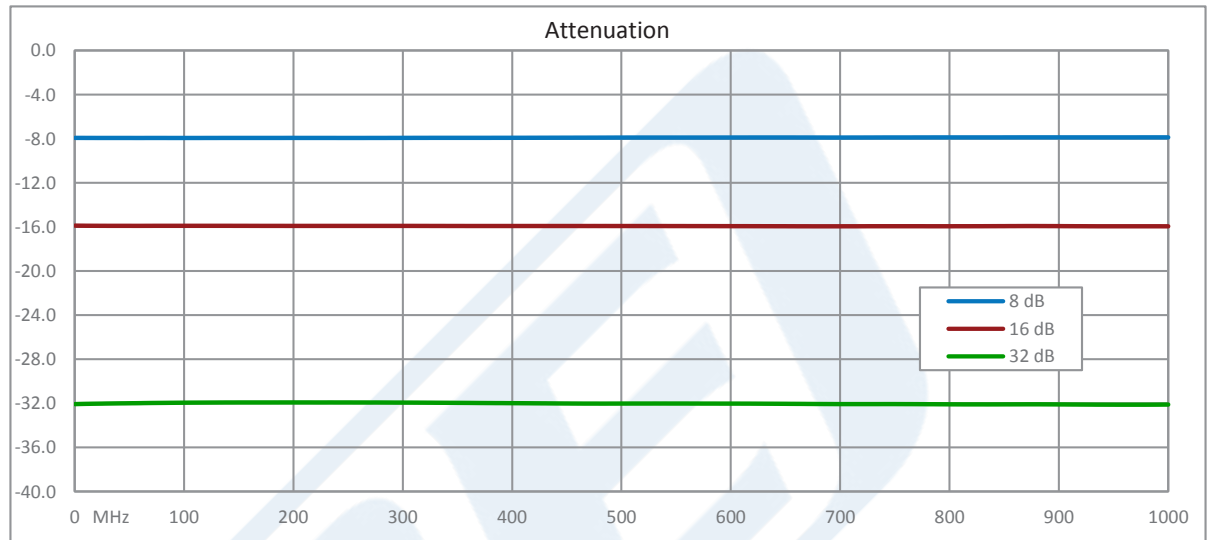
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6 Bit Relay Controlled Programmable Attenuator, 63 dB Up to 1,000 MHz, 1 dB Steps, +12V, SMA Female from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

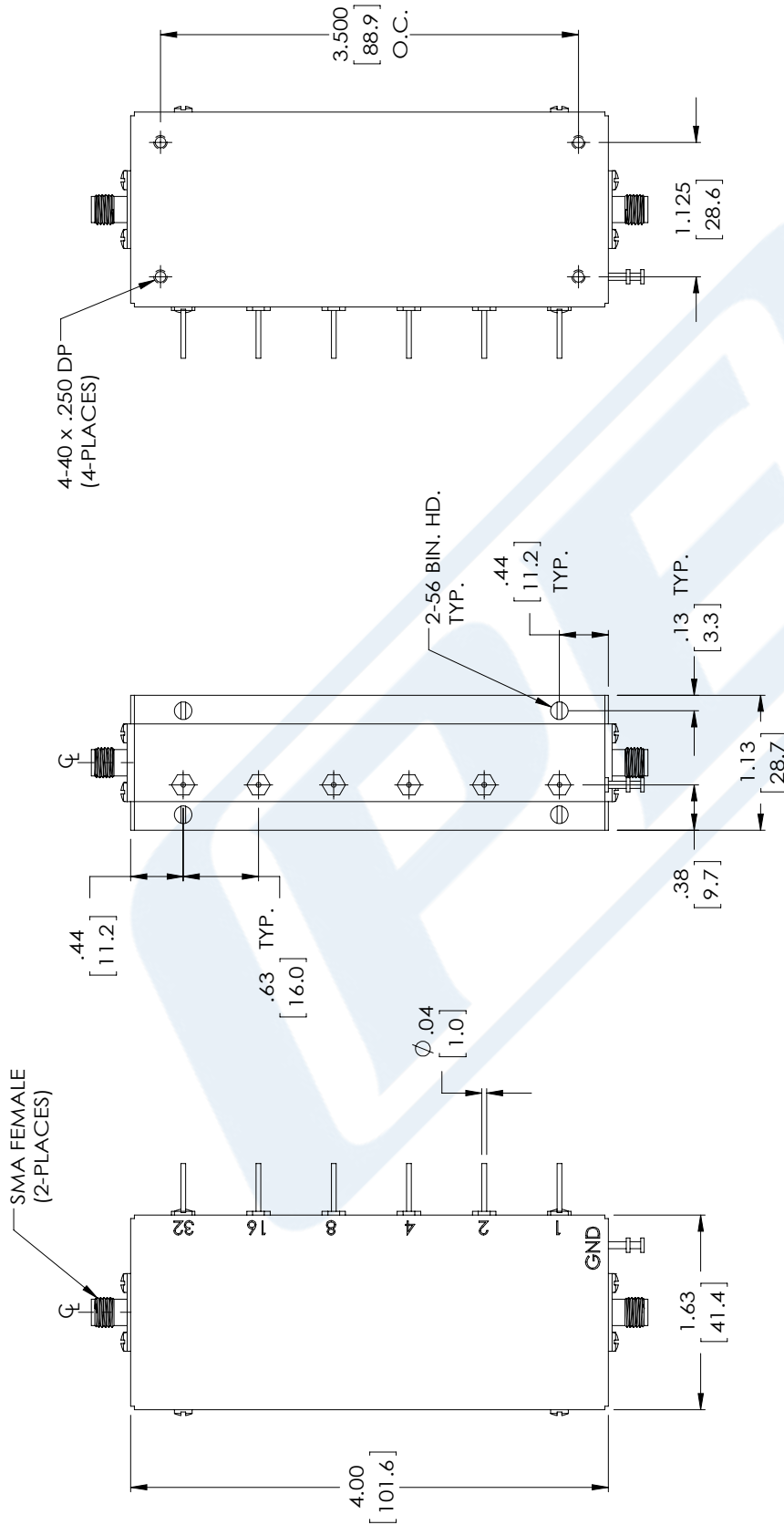
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [6 Bit Relay Controlled Programmable Attenuator, 63 dB Up to 1,000 MHz, 1 dB Steps, +12V, SMA Female PE70A8000](https://www.pasternack.com/63db-relay-controlled-sma-female-sma-female-0.5-watts-attenuator-pe70a8000-p.aspx)

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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.

PE70A8000 CAD Drawing

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STANDARD TOLERANCES

.X ±0.2

.XX ±0.1

.XXX ±0.05

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES



THE ENGINEER'S RF SOURCE

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DWG TITLE

PE70A8000

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].

CAGE CODE 53919

CAD FILE 040517

SCALE N/A

SIZE A

CN_0992