

PEFFASTINGS With particular corr PET MANUS

PE70A5005

Features

- 7 Bit Programmable Attenutor
- · 30 to 3000 MHz Bandwidth
- · 0-63.5 dB attenuation
- · 0.5 dB Step Size
- 50 Ohms

Applications

- · Electronic Warfare
- Test & Measurement
- · Military and Wireless Communications Systems

- · Swithing Speed: 0.7 microseconds typ
- Insertion Loss: 4.0 dB max
- Attenuation Accuracy: +/- 0.5 dB typ
- DC Bias: +5 Vdc @ 50 mA
- · SMA female connectors
- · Military & Space
- Radar

Description

The PE70A5005 is a 7 Bit Programmable Attenuator which operates over the frequency range of 30 MHz to 3000 MHz. The 50 ohm design supports TTL control logic and has an attenuation range that covers 0 to 63.5 dB in 0.5 dB steps. Attenuation steps are 0.5, 1, 2, 4, 8, 16, and 32 dB. Insertion loss is 3 dB typical with a maximum operating RF input power +20 dBm. Additional typical performance includes +/- 0.5 dB attenuation accuracy and switching speed of 0.7 microseconds. The DC supply is +5 Vdc @ 50 mA. The compact and rugged package design supports SMA female RF input/output connectors, and a 10 pin male connector socket for DC and TTL controls. A mating DC cable connector plug assembly (model PE3C4220-24) is available in stock as an accessory. The PE70A5005 has an operational termperature range of -40°C to +85°C.

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

| Description | Min | Тур | Max | Unit |
|--|------|------|-------|-------|
| Frequency Range | 0.03 | | 3 | GHz |
| Impedance | | 50 | | Ohms |
| Attenuation Range | 0 | | 63.5 | dB |
| Insertion Loss | | | 4 | dB |
| VSWR | | | 1.8:1 | |
| Survial Power Average -40 to +85 deg C | | | +25 | dBm |
| Power Handling Capacity | | | +20 | dBm |
| Accuracy of Attenuation | | | | |
| 0.5 dB to 7.5 dB | | ±0.2 | | dB |
| 8 dB to 63.5 dB | | ±0.5 | | dB |
| Step Size | | 0.5 | | dB |
| Switching Time | | 1 | | us |
| Logic Input "0" (Bit Off) | 0 | | 1.5 | Volts |
| Logic Input "1" (Bit On) | 2 | | 5 | Volts |





PE70A5005

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---------------------|-----------|--------|----|----|----|-------|
| Frequency Range | 0.03-0.03 | 0.03-3 | | | | GHz |
| Insertion Loss, Typ | 2.5 | 3.7 | | | | dB |

Electrical Specification Notes: 0.5, 1, 2, 4, 8, 16, and 32 dB bit Steps

Mechanical Specifications

Size

 Length
 0 in [0 mm]

 Width
 0 in [0 mm]

 Height
 0 in [0 mm]

 Weight
 0.177 lbs [80.29 g]

 Connector 1
 SMA Female

 Connector 2
 SMA Female

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C Storage Range -65 to +150 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

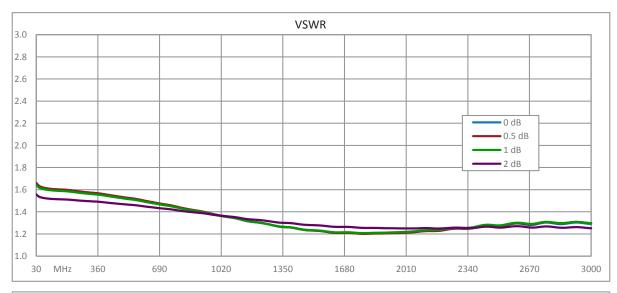
- · Values at 25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation.





PE70A5005

Typical Performance Data

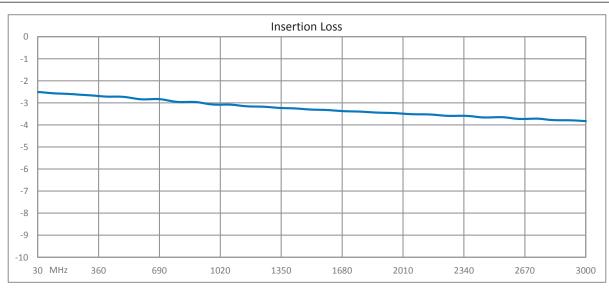


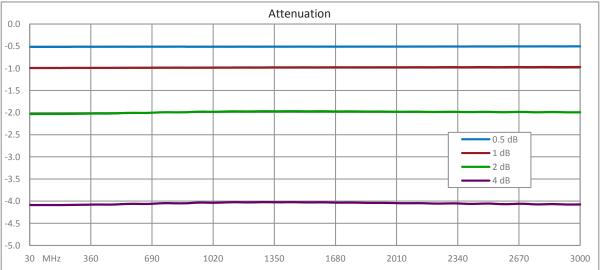






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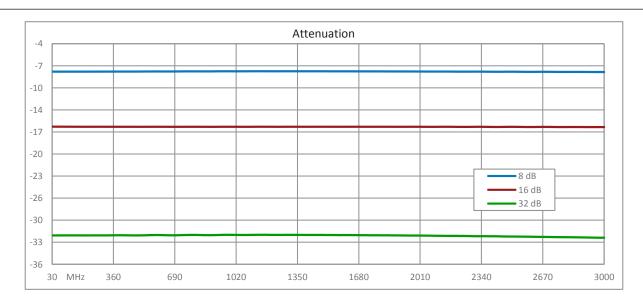








PE70A5005



TTL Controlled Programmable Attenuator, 63.5 dB, from 30 MHz to 3 GHz, 0.5 dB Steps, 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: TTL Controlled Programmable Attenuator, 63.5 dB, from 30 MHz to 3 GHz, 0.5 dB Steps, SMA Female PE70A5005

URL: https://www.pasternack.com/63.5db-ttl-controlled-sma-female-o-watts-attenuator-pe70a5005-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.

