

0 to 41 dB Push Button Step Attenuator, SMA Female to SMA Female with 1 dB Step Rated to 5 Watts Up to 4 GHz



PE70A1050S

Features

- 1, 2, 4, 8, 10, and 16 dB step buttons
- 0 to 41 dB Attenuation
- 1.55:1 VSWR Maximum
- 1.8 dB Attenuation Accuracy Maximum
- SMA Female Connectors
- Maximum Power 5 Watts (CW)

Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems

Description

The PE70A1050S is a Step Attenuator that has 41 dB of total attenuation with 1, 2, 4, 8, 10, and 16 dB push button steps, designed across the frequency range of DC to 4 GHz. Select button for desired attenuation level, total attenuation is the sum of all buttons selected. The design is tried and true technology that offers exceptional performance characteristics that include 4.5 dB maximum insertion loss, and a maximum VSWR of 1.55:1. The design also features excellent attenuation accuracy with 1.8 dB maximum. The Aluminum package has SMA Female connectors, and operates within the temperature range of -20°C to 85°C.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------|---------|-------------|---------|-------|
| Frequency Range | DC | | 4 | GHz |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | | 4.5 | dB |
| Attenuation Value | | 0 to 41 | | dB |
| Step Size | | 1 | | dB |
| Step Type | | Push Button | | |
| Accuracy Statement | | ±1.8 dB | | |
| Input Power (CW) | | | 5 | Watts |
| Input Power, Peak | | | 100 | Watts |
| 5 µs pulse width 2% duty cycle | | | | |
| VSWR | | | 1.55:1 | |

Mechanical Specifications

Size

| | |
|---------------------------|---------------------|
| Length | 5.28 in [134.11 mm] |
| Width | 1.4 in [35.56 mm] |
| Height | 0.79 in [20.07 mm] |
| Weight | 0.31 lbs [140.61 g] |
| Body Material and Plating | Aluminum, Paint |

Connectors

| Description | Connector 1 | Connector 2 |
|-------------|-------------|-------------|
| Type | SMA Female | SMA Female |

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------|------------------------|------------------------|
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Body Material and Plating | Brass, Gold | Brass, Gold |

Environmental Specifications

Temperature

Operating Range

-20 to 85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

0 to 41 dB Push Button Step Attenuator, SMA Female to SMA Female with 1 dB Step Rated to 5 Watts Up to 4 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: [0 to 41 dB Push Button Step Attenuator, SMA Female to SMA Female with 1 dB Step Rated to 5 Watts Up to 4 GHz PE70A1050S](#)

URL: <https://www.pasternack.com/41db-step-sma-female-sma-female-5-watts-attenuator-pe70a1050s-p.aspx>

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PE70A1050S CAD Drawing

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