

## 0 to 11 dB Push Button Step Attenuator, SMA Female to SMA Female with 1 dB Step Rated to 5 Watts Up to 3 GHz



### PE70A1048S

#### Features

- 1, 2, 3, and 5 dB step buttons
- 0 to 11 dB Attenuation
- 1.5:1 VSWR Maximum
- 0.7 dB Attenuation Accuracy Maximum
- SMA Female Connectors
- Maximum Power 5 Watts (CW)

#### Applications

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

#### Description

The PE70A1048S is a Step Attenuator that has 11 dB of total attenuation with 1, 2, 3, and 5 dB push button steps, designed across the frequency range of DC to 3 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 2.5 dB maximum insertion loss, and a maximum VSWR of 1.5:1. The design also features excellent attenuation accuracy with 0.8 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		3	GHz
Impedance		50		Ohms
Insertion Loss			2.5	dB
Attenuation Value		0 to 11		dB
Step Size		1		dB
Step Type		Push Button		
Accuracy Statement		±0.7dB		
Input Power (CW)			5	Watts
Input Power, Peak			100	Watts
5 µs pulse width 2% duty cycle				
VSWR			1.5:1	

#### Mechanical Specifications

##### Size

Length	4.17 in [105.92 mm]
Width	1.4 in [35.56 mm]
Height	0.79 in [20.07 mm]
Weight	0.24 lbs [108.86 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 11 dB Push Button Step Attenuator, SMA Female to SMA Female with 1 dB Step Rated to 5 Watts Up to 3 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 11 dB Push Button Step Attenuator, SMA Female to SMA Female with 1 dB Step Rated to 5 Watts Up to 3 GHz PE70A1048S](#)

URL: <https://www.pasternack.com/11db-step-sma-female-sma-female-5-watts-attenuator-pe70a1048s-p.aspx>

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## PE70A1048S CAD Drawing

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