

0 to 11 dB Push Button Step Attenuator, SMA Female to SMA Female with 1 dB Step Rated to 2 Watts Up to 3 GHz



PE70A1047S

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 2 Watts (CW)

Applications

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

Description

The PE70A1047S 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)			2	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

0 to 11 dB Push Button Step Attenuator, SMA Female to SMA Female with 1 dB Step Rated to 2 Watts Up to 3 GHz



PE70A1047S

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 2 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 2 Watts Up to 3 GHz PE70A1047S](#)

URL: <https://www.pasternack.com/11db-step-sma-female-sma-female-2-watts-attenuator-pe70a1047s-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 implement 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.

PE70A1047S CAD Drawing

0 to 11 dB Push Button Step Attenuator, SMA Female to SMA Female with 1 dB Step Rated to 2 Watts Up to 3 GHz

