

0 to 90 dB Push Button Step Attenuator, 50 Ohm SMA Female To 50 Ohm SMA Female With 1 dB Step Rated To 2 Watts Up To 3 GHz

RF Step Attenuators Technical Data Sheet

Features

- 1, 2, 4, 8, 16, 20, 20, and 20 dB step buttons
- 0 to 90 dB Attenuation
- 4% Attenuation Accuracy Maximum

Applications

- InstrumentationPrecision Measurements
- Prototyping and Characterization
 - Production Systems

Description

The PE70A1041S is a Step Attenuator that has 90 dB of total attenuation with 1, 2, 4, 8, 16, 20, 20, and 20 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 3.5 dB maximum insertion loss, and a maximum VSWR of 1.5:1. The design also features excellent attenuation accuracy with 4% maximum. The Nickel plated Brass package has SMA Female connectors, and operates within the temperature range of -20°C to 85°C.

SMA Female Connectors

Maximum Power 2 Watts (CW)

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Insertion Loss			3.5	dB
Attenuation Value		0 to 90		dB
Step Size		1		dB
Step Type	Push Button			
Accuracy Statement	±2dB (<50	±2dB (<50dB Atten) ±4%dB (>50dB Atten)		
Input Power (CW)			2	Watts
Input Power, Peak			100	Watts
5 µs pulse width 2% duty cycl	e			
SWR 1.5:1				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 0 to 90 dB Push Button Step Attenuator, 50 Ohm SMA Female To 50 Ohm SMA Female With 1 dB Step Rated To 2 Watts Up To 3 GHz PE70A1041S

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

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PE70A1041S



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Mechanical Specifications			
Size Length Width Height	5.709 in [145.01 mm] 0.787 in [19.99 mm] 1.398 in [35.51 mm]		
Weight	0.375 lbs [170.1 g]		
Body Material and Plating	Aluminum, Paint		
Connectors			
Description	Connector 1	Connector 2	
Туре	SMA Female	SMA Female	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Body Material and Plating	Brass, Nickel	Brass, Nickel	
To 3 GHz from Pasternack Enterprises has sa millimeter wave products maintain a 99.4% a	Ohm SMA Female To 50 Ohm SM ame day shipment for domestic a availability and are part of the bro	-	
	Button Step Attenuator, 50 Ohm	btain additional part information including price SMA Female To 50 Ohm SMA Female With 1 dE	
URL: https://www.pasternack.com/90db-step	-sma-female-sma-female-2-watt	s-attenuator-pe70a1041s-p.aspx	
make modifications to the part and/or the documentation	of the part, in order to implement improve e nominal. Pasternack does not make any	entative of the part described herein. It may be necessary to ements. Pasternack reserves the right to make such changes of representation or warranty regarding the suitability of the par out of the use of any part or documentation.	

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PE70A1041S CAD Drawing

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