

1.5 to 30 dB Step Attenuator with a1 dB Step SMA Female Interface Rated Up to3 GHz and Up to 2 Watts in a Dial Design



## **RF Step Attenuators Technical Data Sheet**

PE70A1037

#### **Features**

- 1 dB steps from 1.5 to 30 dB Attenuation
- Rotary Dial Control
- SMA Female Connectors

- · -20°C to +85°C Operating Temperature
- · ±1.5 dB Attenuation Accuracy Max

### **Applications**

Instrumentation

- Prototyping and Characterization
- Precision Measurements
- · Production Systems

### **Description**

The PE70A1037 is a Step Attenuator that has 30 dB of total attenuation with 1 dB step size and rotary dial design across a frequency range from DC to 3 GHz. The design is tried and true technology that offers exceptional performance characteristics that include 1.5 dB maximum insertion loss, and a maximum VSWR of 1.5:1 at 3 GHz. The Aluminum alloy 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			1.5	dB
Attenuation Value		1.5 to 30		dB
Step Size		1		dB
Step Type		Dial		
Input Power (CW)			2	Watts
Input Power, Peak			100	Watts
VSWR			1.5:1	

### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Range	DC to 1	1 to 2	2 to 3			GHz
Insertion Loss	0.6	1	1.5			dB
VSWR	1.3:1	1.4:1	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: 1.5 to 30 dB Step Attenuator with a 1 dB Step SMA Female Interface Rated Up to 3 GHz and Up to 2 Watts in a Dial Design PE70A1037

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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### **Mechanical Specifications**

Size

 Length
 4.72 in [119.89 mm]

 Width
 1.18 in [29.97 mm]

 Height
 2.1 in [53.34 mm]

 Weight
 0.9 lbs [408.23 g]

#### **Connectors**

Description	Connector 1	Connector 2		
Туре	SMA Female	SMA Female		

### **Environmental Specifications**

**Temperature** 

Operating Range -20 to 85 deg C

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

1.5 to 30 dB Step Attenuator with a 1 dB Step SMA Female Interface Rated Up to 3 GHz and Up to 2 Watts in a Dial Design 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.

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URL: https://www.pasternack.com/30db-step-sma-female-sma-female-2-watts-attenuator-pe70a1037-p.aspx

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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# PE70A1037 CAD Drawing

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