

0 to 9dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 18GHz



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

PE7442-9

### **Features**

- 1 dB steps from 0 to 9 dB Attenuation
- Rotary Dial Control
- · SMA Female Connectors

- · -20°C to +85°C Operating Temperature
- ±1 dB Typical Attenuation Accuracy

## **Applications**

Instrumentation

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

## **Description**

The PE7442-9 is a Step Attenuator that has 9 dB of total attenuation with 1 dB step size and rotary dial design across a frequency range from DC to 18 GHz. The design is tried and true technology that offers exceptional performance characteristics that include 1.2 dB maximum insertion loss, and a maximum VSWR of 1.6:1 at 18 GHz. The design also features excellent attenuation accuracy with ±1 dB typical at 18 GHz. 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		18	GHz
Impedance		50		Ohms
Insertion Loss			1.2	dB
Attenuation Value		0 to 9		dB
Step Size		1		dB
Step Type		Rotary		
Input Power (CW)			2	Watts
Input Power, Peak			200	Watts
5μs Pulse Width,1% DutyCycl	е			
VSWR			1.6:1	

## Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 18					GHz
Attenuation Accuracy	1					dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 0 to 9dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 18GHz PE7442-9

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red substitution



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#### **Mechanical Specifications**

Size

 Length
 3.819 in [97 mm]

 Width
 1.772 in [45.01 mm]

 Height
 1.89 in [48.01 mm]

 Weight
 0.485 lbs [219.99 g]

#### Connectors

Description	Connector 1	Connector 2	
Туре	SMA Female	SMA Female	
Contact Material and Plating	Beryllium Copper, Gold		
Body Material and Plating	Stainless Steel	Aluminum	

#### **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 9dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 18GHz 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/90db-step-sma-female-sma-female-2-watts-attenuator-pe7442-9-p.aspx

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## PE7442-9 CAD Drawing

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