

# 0 to 99dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 18GHz



# PE7444-99

#### **Features**

- 1 dB steps from 0 to 99 dB Attenuation
- · Rotary Dial Control
- · SMA Female Connectors

# **Applications**

- Instrumentation
- · Precision Measurements

- 0°C to +54°C Operating Temperature
- ±2 dB Typical Attenuation Accuracy
- · Prototyping and Characterization
- Production Systems

# **Description**

The PE7444-99 is a Step Attenuator that has 99 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 1.5 dB maximum insertion loss, and a maximum VSWR of 1.75:1 at 18 GHz. The design also features excellent attenuation accuracy with ±2 dB typical at 18 GHz. The Aluminum package has SMA Female connectors, and operates within the temperature range of 0°C to 54°C.

## **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Attenuation Value		0 to 99		dB
Step Size		1		dB
Step Type		Rotary		
Input Power (CW)			2	Watts
Input Power, Peak			200	Watts
5µs Pulse Width,1% DutyCycle				
VSWR			1.75:1	

# **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Range	DC to 18					GHz
Attenuation Accuracy	2					dB

**Electrical Specification Notes:** 

Attenuation Accuracy specification is ±3.5% dB typ for any attenuation above 70dB.

# **Mechanical Specifications**

Size

 Length
 6.417 in [162.99 mm]

 Width
 1.772 in [45.01 mm]

 Height
 1.89 in [48.01 mm]

 Weight
 0.05 lbs [22.68 g]



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#### 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 0 to 54 deg C

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

0 to 99dB 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 0 to 99dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 18GHz PE7444-99

URL: https://www.pasternack.com/99db-step-sma-female-sma-female-2-watts-attenuator-pe7444-99-p.aspx

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