



# 0 to 69dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 18GHz

The FMAT7444-69 is a Step Attenuator that has 69 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  $\pm 1.5$  dB typical at 18 GHz. The Aluminum package has SMA Female connectors, and operates within the temperature range of -0°C to 54°C.



Description	Min	Тур	Max	Units	
Frequency Range	DC		18	GHz	
Impedance		50		Ohms	
Insertion Loss			1.5	dB	
Attenuation Value		dB			
Step Size		1		dB	
Step Type	Rotary				
Input Power (CW)			2	Watts	
Input Power, Peak 5µs Pulse Width,1% D	utyCycle		200	Watts	
VSWR			1.75:1		

### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Range	DC to 18					GHz
Atten. Accuracy	± 1.5					dB

## **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
 1.06 lbs [480.81 g]

#### **Connectors**

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

## **Environmental Specifications**

Temperature

Operating Range 0 to 54 deg C

## Features:

- 1 dB steps from 0 to
   69 dB Attenuation
- Rotary Dial Control
- SMA Female Connectors
- 0°C to +54°C Operating Temperature
- ±1.5 dB Typical Attenuation Accuracy

## Applications:

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

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**Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**

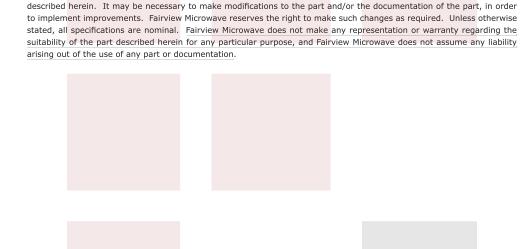
Notes:

0 to 69dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 18GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 0 to 69dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 18GHz FMAT7444-69

The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: https://www.fairviewmicrowave.com/69db-step-attenuator-1db-sma-female-dc-18-ghz-2-watts-fmat7444-69-p. aspx



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