

# 0 to 99dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 8GHz



## FMAT7443-99

## **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 FMAT7443-99 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 8 GHz. The design is tried and true technology that offers exceptional performance characteristics that include 1 dB maximum insertion loss, and a maximum VSWR of 1.5:1 at 8 GHz. The design also features excellent attenuation accuracy with ±2 dB typical at 8 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		8	GHz
Impedance		50		Ohms
Insertion Loss			1	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			1.5:1	

## **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Range	DC to 8					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 2.5 lbs [1.13 kg]



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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 8GHz from Fairview Microwave is instock 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 99dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 8GHz FMAT7443-99

URL: https://www.fairviewmicrowave.com/99db-step-attenuator-1db-sma-female-dc-8-ghz-2-watts-fmat7443-99-p.aspx

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## FMAT7443-99 CAD Drawing

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