

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



**FMAT7444-69**

**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

**Description**

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 ±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.

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Attenuation Value		0 to 69		dB
Step Size		1		dB
Step Type		Rotary		
Input Power (CW)			2	Watts
Input Power, Peak 5µs Pulse Width, 1% DutyCycle			200	Watts
VSWR			1.75:1	

**Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Range	DC to 18					GHz
Attenuation Accuracy	1.5					dB

Electrical Specification Notes:  
Attenuation Accuracy specification is ±2 dB typ for any attenuation above 50dB.

**Mechanical Specifications**

<b>Size</b>	
Length	6.417 in [162.99 mm]
Width	1.772 in [45.01 mm]
Height	1.89 in [48.01 mm]
Weight	0.54 lbs [244.94 g]

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**Connectors**

Description	Connector 1	Connector 2
Type	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 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](#)

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

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# FMAT7444-69 CAD Drawing

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