

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

The FMAT7442-9 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  $\pm$ 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

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Description	Min	Тур	Max	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 5µs Pulse Width,1% D	utyCycle		200	Watts
VSWR			1.6:1	

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 18					GHz
Atten. Accuracy	± 1					dB

### **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

Connector 1	Connector 2	
SMA Female	SMA Female	
Beryllium Copper, Gold		
Stainless Steel	Aluminum	
	SMA Female Beryllium Copper, Gold	

### **Environmental Specifications**

**Temperature** Operating Range

-20 to 85 deg C

# FMAT7442-9 DATA SHEET



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

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

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

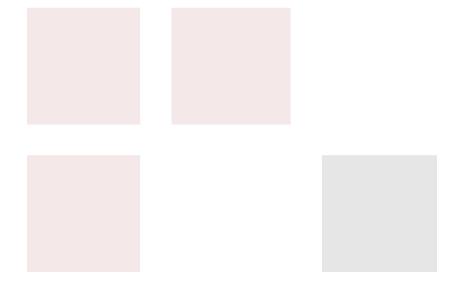
Notes:

0 to 9dB 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 9dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 18GHz FMAT7442-9

URL: https://www.fairviewmicrowave.com/90db-step-attenuator-1db-sma-female-dc-18-ghz-2-watts-fmat7442-9-p.aspx

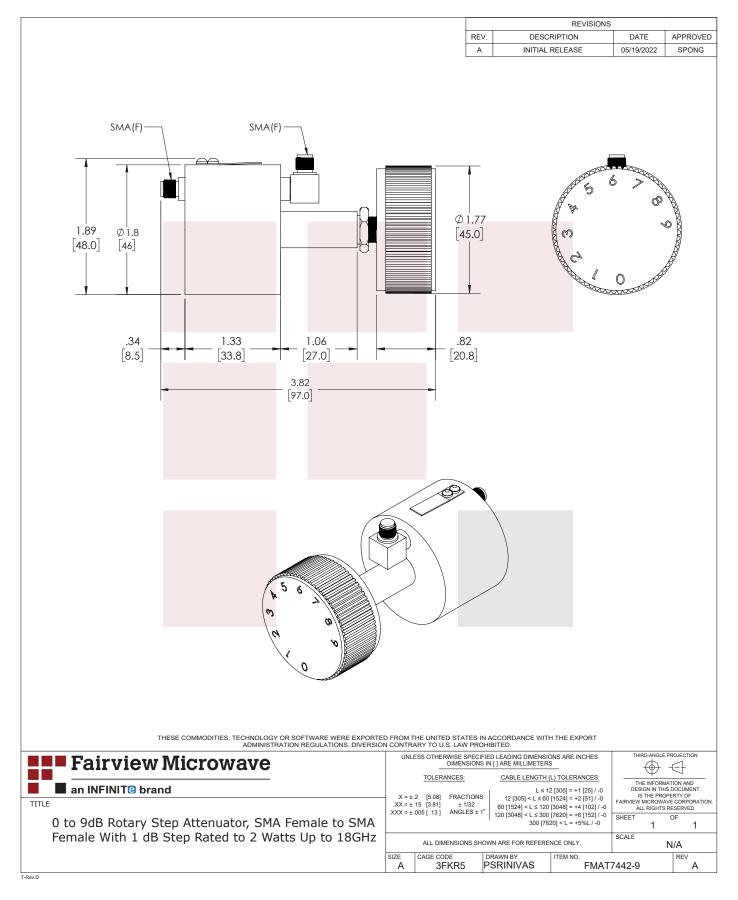
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