

# FMAT7440-70 DATA SHEET

# 0 to 70 dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 6 GHz

The FMAT7440-70 is a Step Attenuator that has 70 dB of total attenuation with 1 dB step size and rotary dial design across a frequency range from DC to 6 GHz. The design is tried and true technology that offers exceptional performance characteristics that include 1.8 dB maximum insertion loss, and a maximum VSWR of 1.55:1 at 6 GHz. The design also features excellent attenuation accuracy with  $\pm 1.5$  dB typical at 6 GHz. The Brass package has SMA Female connectors, and operates within the temperature range of -20°C to 85°C.



Description	Min	Тур	Max	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Insertion Loss			1.8	dB
Attenuation Value		0 to 70		dB
Step Size		1		dB
Step Type		Rotary		
Input Power (CW)			2	Watts
Input Power, Peak			100	Watts
5μs Pulse Width,2% D	utyCycle			
VSWR			1.55:1	

## **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Range	DC to 6					GHz
Atten. Accuracy	± 1.5					dB

## **Mechanical Specifications**

Size

 Length
 4.724 in [119.99 mm]

 Width
 1.181 in [30 mm]

 Height
 2.098 in [53.29 mm]

 Weight
 0.959 lbs [435 g]

#### **Connectors**

Connector 1	Connector 2		
SMA Female	SMA Female		
Beryllium Copper, Gold			
Brass, Nickel	Brass, Nickel		
	SMA Female Beryllium Copper, Gold		

# **Environmental Specifications**

Temperature

Operating Range -20 to 85 deg C



### Features:

- 1 dB steps from 0 to
   70 dB Attenuation
- Rotary Dial Control
- SMA Female Connectors
- -20°C to +85°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 70 dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 6 GHz 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 70 dB Rotary Step Attenuator, SMA Female to SMA Female With 1 dB Step Rated to 2 Watts Up to 6 GHz FMAT7440-70

URL: https://www.fairviewmicrowave.com/70db-step-attenuator-1db-sma-female-dc-6-ghz-2-watts-fmat7440-70-p.aspx

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