

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



## FMAT7440N-70

#### **Features**

- 1 dB steps from 0 to 70 dB Attenuation
- · Rotary Dial Control
- · N Female Connectors

## **Applications**

- Instrumentation
- · Precision Measurements

- -20°C to +85°C Operating Temperature
- ±1.5 dB Typical Attenuation Accuracy
- · Prototyping and Characterization
- · Production Systems

### **Description**

The FMAT7440N-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 1.6:1 at 6 GHz. The design also features excellent attenuation accuracy with ±1.5 dB typical at 6 GHz. The Brass package has N Female connectors, and operates within the temperature range of -20°C to 85°C.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	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% DutyCycle				
VSWR			1.6:1	

#### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Range	DC to 6					GHz
Attenuation Accuracy	1.5					dB

**Electrical Specification Notes:** 

Attenuation Accuracy specification is ±3.5% dB typ for any attenuation above 50dB.

## **Mechanical Specifications**

Size

 Length
 4.724 in [119.99 mm]

 Width
 1.181 in [30 mm]

 Height
 2.098 in [53.29 mm]

 Weight
 0.46 lbs [208.65 g]



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#### Connectors

Description	Connector 1	Connector 2	
Туре	N Female	N Female	
Contact Material and Plating	Beryllium Copper, Gold		
Body Material and Plating	Brass, Nickel	Brass, Nickel	

#### **Environmental Specifications**

**Temperature** 

Operating Range -20 to 85 deg C

Compliance Certifications (see product page for current document)

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

Notes:

0 to 70 dB Rotary Step Attenuator, N-type Female to N-type 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, N-type Female to N-type Female With 1 dB Step Rated to 2 Watts Up to 6 GHz FMAT7440N-70

URL: https://www.fairviewmicrowave.com/70db-step-attenuator-1db-n-female-dc-6-ghz-2-watts-fmat7440n-70-p.aspx

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## FMAT7440N-70 CAD Drawing

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