

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



FMAT7446N-69

Features

- 1 dB steps from 0 to 69 dB Attenuation
- Rotary Dial Control
- · N Female Connectors

Applications

- Instrumentation
- · Precision Measurements

- 0°C to +54°C Operating Temperature
- ±1.5 dB Typical Attenuation Accuracy
- · Prototyping and Characterization
- Production Systems

Description

The FMAT7446N-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 N 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			200	Watts
5μs Pulse Width,0.5% DutyCycle				
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 for any attenuation above 50dB

Mechanical Specifications

Size

 Length
 6.417 in [162.99 mm]

 Width
 4.173 in [105.99 mm]

 Height
 3.268 in [83.01 mm]

 Weight
 4.7 lbs [2.13 kg]



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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	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, N-type to N-type Female With 1 dB Step Rated to 2 Watts Up to 18GHz 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 69dB Rotary Step Attenuator, N-type to N-type Female With 1 dB Step Rated to 2 Watts Up to 18GHz FMAT7446N-69

URL: https://www.fairviewmicrowave.com/69db-step-attenuator-1db-n-female-dc-18-ghz-2-watts-fmat7446n-69-p.aspx

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FMAT7446N-69 CAD Drawing

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