

0 to 41 dB Step Attenuator with a 1 dB Step N Female Interface Rated Up to 4 GHz and Up to 2 Watts in a Push Button Design

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# **FMAT1049N**

## **Features**

- 1, 2, 4, 8, 10, and 16 dB step buttons
- 0 to 41 dB Attenuation
- 1.55:1 VSWR Maximum

#### **Applications**

- Instrumentation
- · Precision Measurements

- · 1.8 dB Attenuation Accuracy Maximum
- N-Type Female Connectors
- Maximum Power 2 Watts (CW)
- · Prototyping and Characterization
- · Production Systems

## **Description**

The FMAT1049N is a Step Attenuator that has 41 dB of total attenuation with 1, 2, 4, 8, 10, and 16 dB push button steps, designed across the frequency range of DC to 4 GHz. Select button for desired attenuation level, total attenuation is the sum of all buttons selected. The design is tried and true technology that offers exceptional performance characteristics that include 4.5 dB maximum insertion loss, and a maximum VSWR of 1.55:1. The design also features excellent attenuation accuracy with 1.8 dB maximum. The Aluminum package has N-Type Female connectors, and operates within the temperature range of -20°C to 85°C.

# **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
Impedance		50		Ohms
Insertion Loss			4.5	dB
Attenuation Value		0 to 41		dB
Step Size		1		dB
Step Type		Push Button		
Accuracy Statement		±1.8 dB		
Input Power (CW)			2	Watts
Input Power, Peak			100	Watts
5 μs pulse width 2% duty cycle				
VSWR			1.55:1	

# **Mechanical Specifications**

Size

 Length
 5.28 in [134.11 mm]

 Width
 1.4 in [35.56 mm]

 Height
 0.79 in [20.07 mm]

 Weight
 0.31 lbs [140.61 g]

 Body Material and Plating
 Aluminum, Paint

# Connectors

Description	Connector 1	Connector 2	
Туре	N Female	N Female	



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#### Connectors

Description	Connector 1	Connector 2	
Contact Material and Plating	Beryllium Copper, Gold	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 41 dB Step Attenuator with a 1 dB Step N Female Interface Rated Up to 4 GHz and Up to 2 Watts in a Push Button Design 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 41 dB Step Attenuator with a 1 dB Step N Female Interface Rated Up to 4 GHz and Up to 2 Watts in a Push Button Design FMAT1049N

URL: https://www.fairviewmicrowave.com/41db-step-attenuator-1db-n-female-dc-4-ghz-2-watts-fmat1049n-p.aspx

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# **FMAT1049N CAD Drawing**

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