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# 0 to 90 dB Step Attenuator 50 Ohm N Female To 50 Ohm N Female With 1 dB Step Rated To 2 Watts Up To 4 GHz in a Push Button design

The FMAT1042N is a Step Attenuator that has 90 dB of total attenuation with 1, 2, 4, 8, 16, 20, 20, and 20 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 5 dB maximum insertion loss, and a maximum VSWR of 1.75:1. The design also features excellent attenuation accuracy with 5% Maximum. The Nickel plated Brass package has N Female connectors, and operates within the temperature range of -20°C to 85°C.

## **Electrical Specifications**

Description	Min	Тур	Max	Units
Frequency Range	DC		4	GHz
Impedance		50		Ohms
Insertion Loss			5	dB
Attenuation Value	0	to 90		dB
Step Size		1		dB
Step Type	Push Button			
Accuracy Statement	±2.5dB (<50dB Atten) ±5%dB (>50dB Atten)			
Input Power (CW)			2	Watts
Input Power, Peak 5 µs pulse width 2% c	luty cycle		100	Watts
VSWR			1.75:1	

### **Mechanical Specifications**

Size		
Length	6	.378 in [162 mm]
Width	0	.787 in [19.99 mm]
Height	1	.398 in [35.51 mm]
Weight	0	.375 lbs [170.1 g]
Body Material and Plating		luminum, Paint

#### Connectors

N Female	N Female
Beryllium Copper, Gold	Beryllium Copper, Gold
Brass, Nickel	Brass, Nickel
	Beryllium Copper, Gold

### **Environmental Specifications**

Temperat	ture
Operating	Range

-20 to 85 deg C



FMAT1042N DATA SHEET

## **Features:**

- 1, 2, 4, 8, 16, 20, 20, and
  20 dB step buttons
- 0 to 90 dB Attenuation
- 5% Attenuation Accuracy Maximum
- N Female Connectors
- Maximum Power 2 Watts (CW)

## **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**

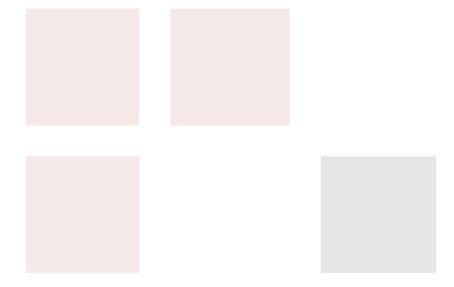
Notes:

0 to 90 dB Step Attenuator 50 Ohm N Female To 50 Ohm N Female With 1 dB Step Rated To 2 Watts Up To 4 GHz 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 90 dB Step Attenuator 50 Ohm N Female To 50 Ohm N Female With 1 dB Step Rated To 2 Watts Up To 4 GHz in a Push Button design FMAT1042N

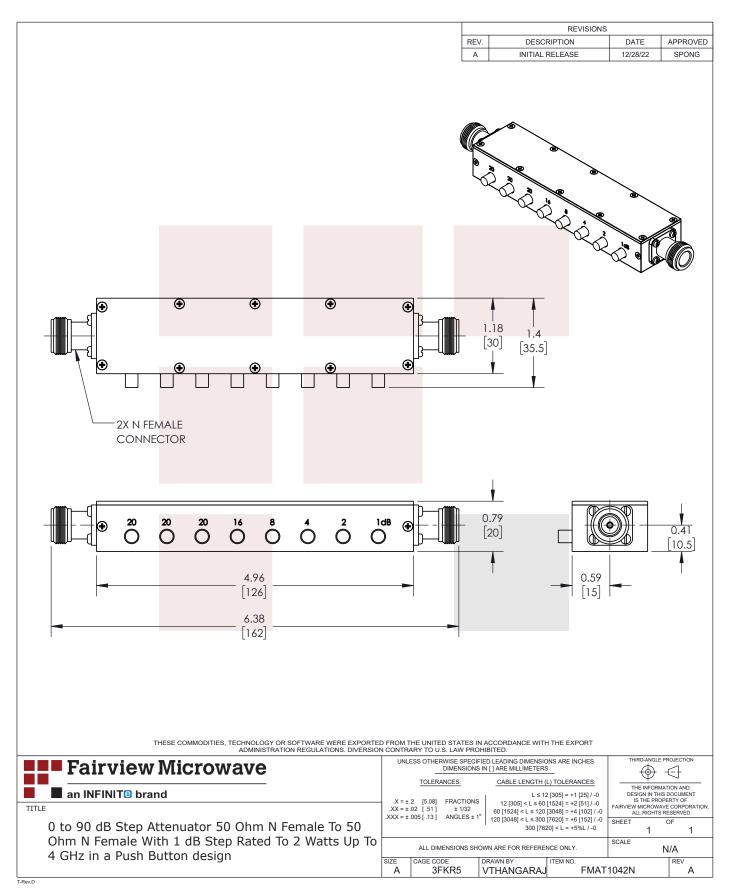
URL: https://www.fairviewmicrowave.com/90db-step-attenuator-1db-n-female-dc-4-ghz-2-watts-fmat1042n-p.aspx

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