

FMAT1046 DATA SHEET

0 to 91 dB Step Attenuator 75 Ohm BNC Female To 75 Ohm BNC Female With 1 dB Step Rated To 2 Watts Up To 2.5 GHz in a Push Button design

The FMAT1046 is a Step Attenuator that has 91 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 2.5 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 3 dB maximum insertion loss, and a maximum VSWR of 1.4:1. The design also features excellent attenuation accuracy with 7.5 dB maximum. The Nickel plated Brass package has BNC Female connectors, and operates within the temperature range of -20°C to 85°C.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	DC		2.5	GHz
Impedance		75		Ohms
Insertion Loss			3	dB
Attenuation Value	С	to 91		dB
Step Size		1		dB
Step Type	Push Button			
Accuracy Statement	±0.5dB (1,2,4,8 dB), ±1dB (16dB), ±1.5dB			
(20dB)				
Input Power (CW)			2	Watts
Input Power, Peak			100	Watts
5 μs pulse width 2% d	uty cycle			
VSWR			1.4:1	

Electrical Specification Notes: Attenuation accuracy is by button

Mechanical Specifications

Size

 Length
 6.142 in [156.01 mm]

 Width
 0.787 in [19.99 mm]

 Height
 1.398 in [35.51 mm]

 Weight
 0.32 lbs [145.15 g]

 Body Material and Plating
 Aluminum, Paint

Connectors

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

Environmental Specifications Temperature

Operating Range -20 to 85 deg C



Features:

- 1, 2, 4, 8, 16, 20, 20, and 20 dB step buttons
- 0 to 91 dB Attenuation
- 7.5 Attenuation Accuracy Maximum
- BNC 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:

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For additional information on this product, please click the following link: 0 to 91 dB Step Attenuator 75 Ohm BNC Female To 75 Ohm BNC Female With 1 dB Step Rated To 2 Watts Up To 2.5 GHz in a Push Button design FMAT1046

URL: https://www.fairviewmicrowave.com/91db-step-attenuator-1db-bnc-female-dc-2.5-ghz-2-watts-fmat1046-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order



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