

0 to 82.5 dB Step Attenuator BNC Female Connectors Rated Up To 750 MHz and Up to 1 Watt in a Push Button Design



FMAT1021

Features

- 0.5, 1, 2, 3, 6, 10, 20, 20, and 20 dB step buttons
- 0 to 82.5 dB Attenuation
- ± 0.3 dB or 1% Attenuation Accuracy
- BNC Female Connectors
- -40°C to $+70^{\circ}\text{C}$ Operating Temperature

Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems

Description

The FMAT1021 is a Step Attenuator that has 82.5 dB of total attenuation with 0.5, 1, 2, 3, 6, 10, 20, 20, and 20 dB push button steps, designed across the frequency range of DC to 750 MHz. 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 1.5 dB maximum insertion loss, and a maximum VSWR of 1.4:1. The design also features excellent attenuation accuracy with ± 0.3 dB or 1% which ever is greater. The Nickel plated Brass package has BNC Female connectors, and operates within the temperature range of -40°C to 70°C .

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		750	MHz
Impedance		50		Ohms
Insertion Loss			1.5	dB
Attenuation Value		0 to 82.5		dB
Step Type		Push Button		
Accuracy Statement		± 0.3 dB or 1% (Which-ever is greater)		
Input Power (CW)			1	Watt
Input Power, Peak 1 μsec PW, 1% DC			100	Watts
VSWR			1.4:1	

Mechanical Specifications

Size

Length	6 in [152.4 mm]
Width	1.84 in [46.74 mm]
Height	1.25 in [31.75 mm]
Weight	0.751 lbs [340.65 g]
Body Material and Plating	Brass, Nickel

Connectors

Description	Connector 1	Connector 2
Type	BNC Female	BNC Female

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Environmental Specifications

Temperature

Operating Range

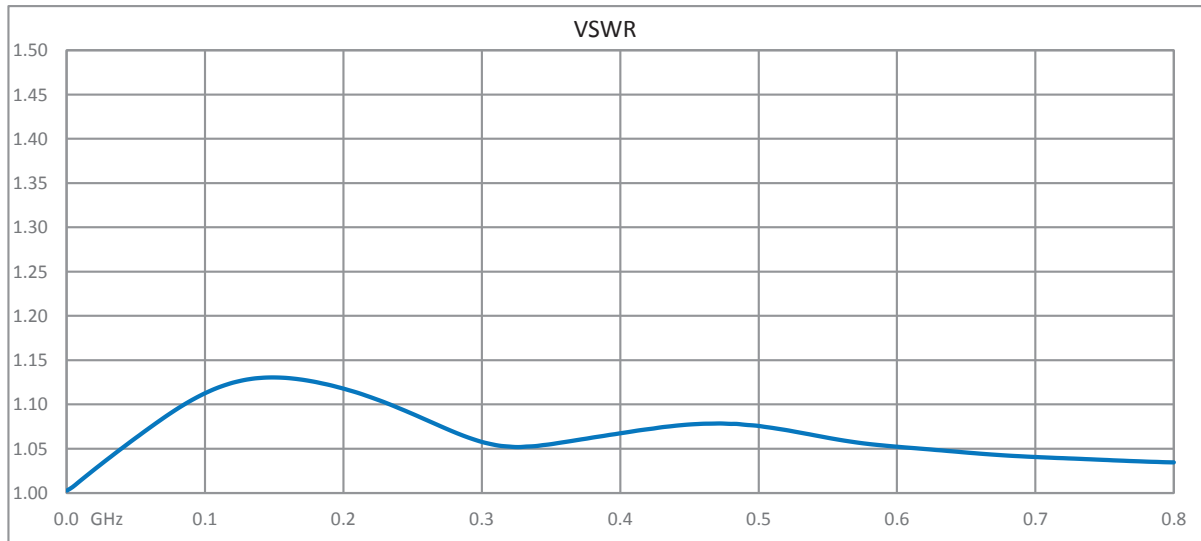
-40 to 70 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

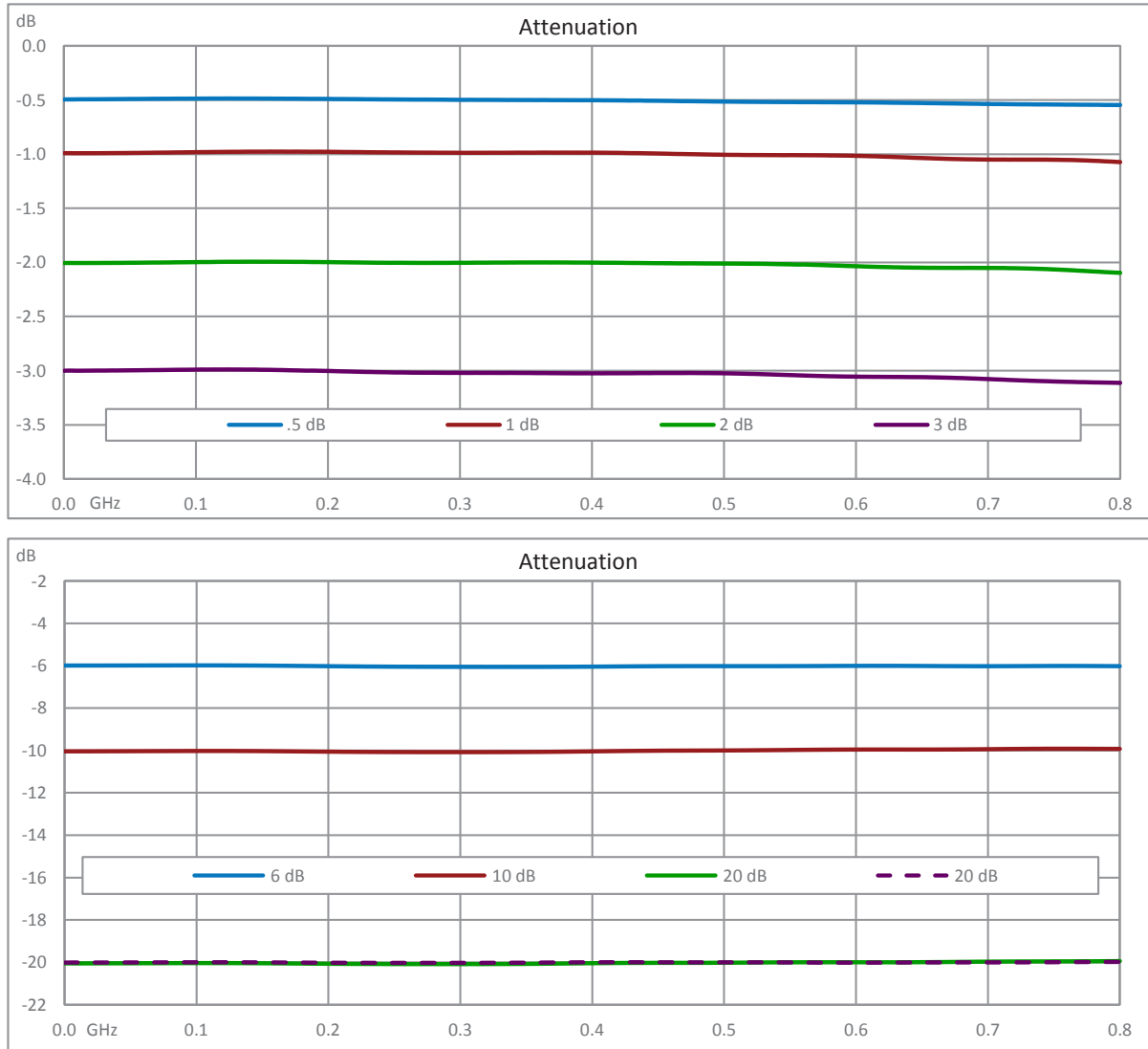
Typical Performance Data



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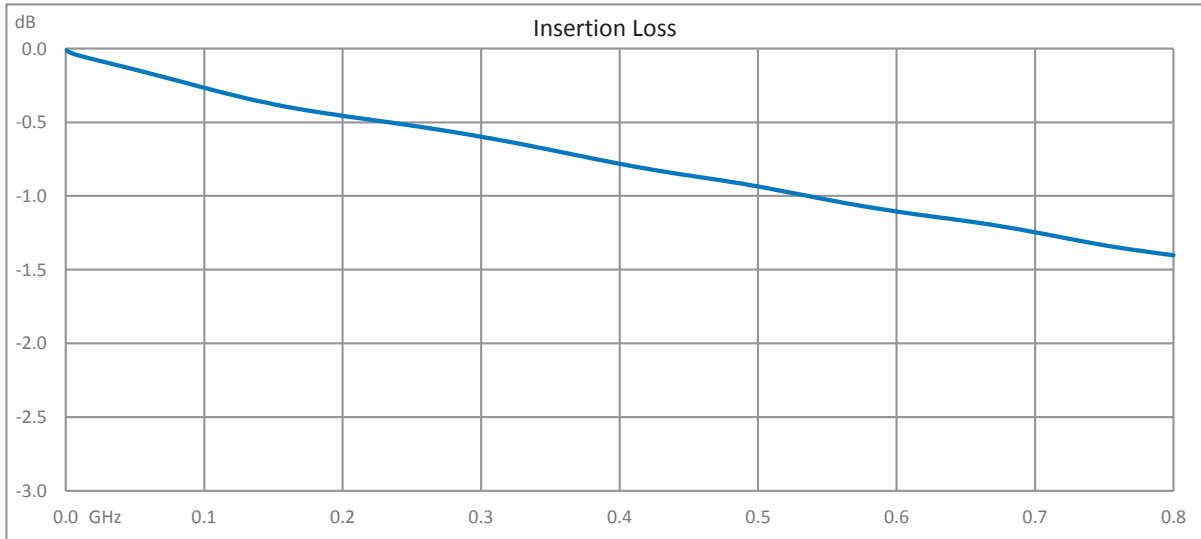
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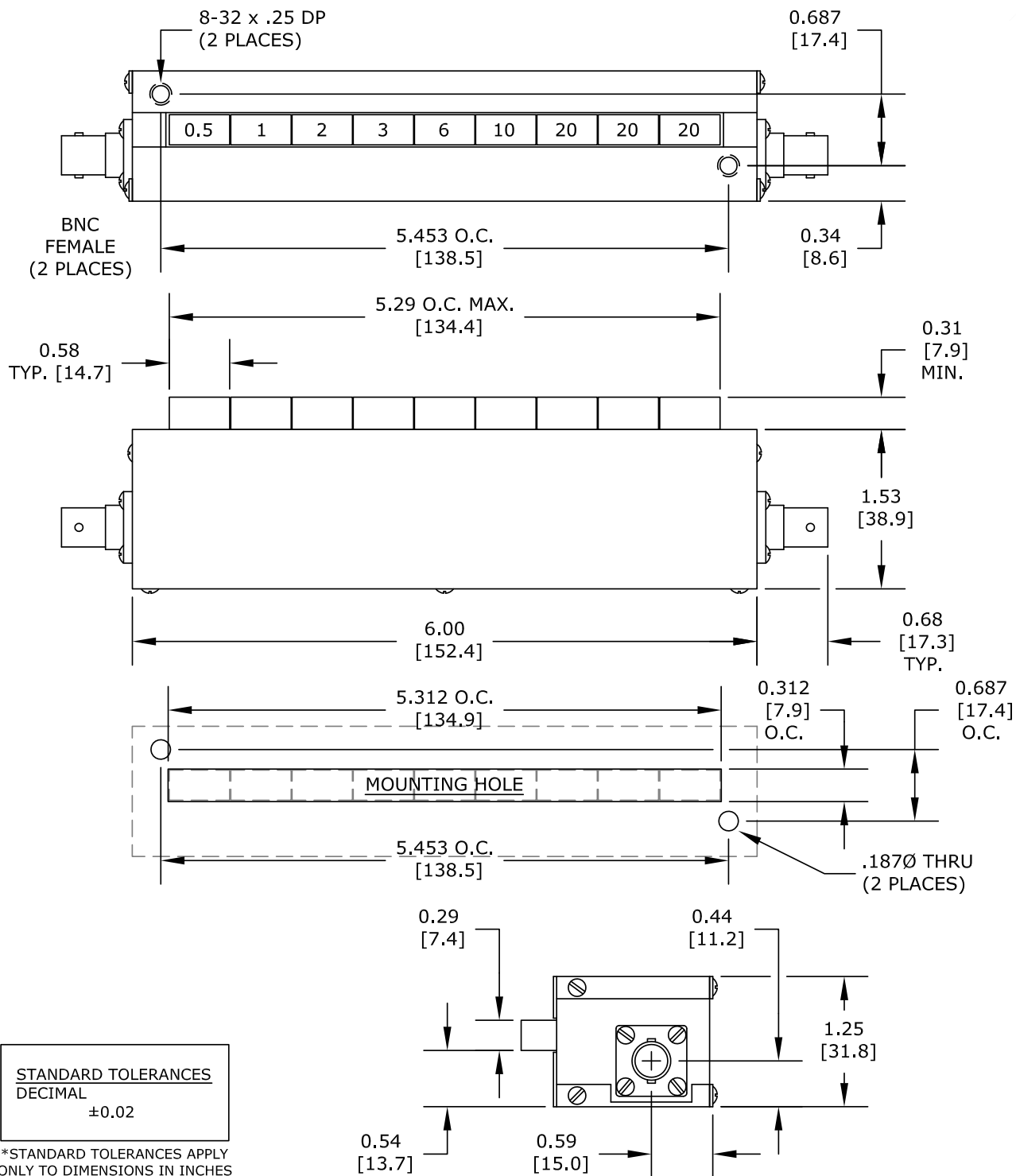
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For additional information on this product, please click the following link: [0 to 82.5 dB Step Attenuator BNC Female Connectors Rated Up To 750 MHz and Up to 1 Watt in a Push Button Design FMAT1021](https://www.fairviewmicrowave.com/82.5db-step-attenuator-0db-bnc-female-dc-750-mhz-1-watt-fmat1021-p.aspx)

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FMAT1021 CAD Drawing
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TITLE	DWG NO		CAGE CODE		
	FMAT1021		3FKR5		
	CAD FILE	021417	SHEET	SCALE	N/A
				SIZE	A
					2233