Fairview Microwave

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0 to 90 dB Step Attenuator 50 Ohm BNC Female To 50 Ohm BNC Female With 1 dB Step Rated To 2 Watts Up To 3 GHz in a Push Button design

The FMAT1041B 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 3 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 3.5 dB maximum insertion loss, and a maximum VSWR of 1.5:1. The design also features excellent attenuation accuracy with 4% 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 | | 3 | GHz | | |
| Impedance | 50 | | | Ohms | | |
| Insertion Loss | | | 3.5 | dB | | |
| Attenuation Value | 0 | dB | | | | |
| Step Size | | 1 | | dB | | |
| Step Type | Push Button | | | | | |
| Accuracy Statement | ±2dB (<50dB Atten) ±4%dB (>50dB Atten) | | | | | |
| Input Power (CW) | | | 2 | Watts | | |
| Input Power, Peak | | | 100 | Watts | | |
| 5 µs pulse width 2% d | | | | | | |
| VSWR | | | 1.5:1 | | | |

Mechanical Specifications

| 6.142 in [156.01 mm] |
|----------------------|
| 0.787 in [19.99 mm] |
| 1.398 in [35.51 mm] |
| 0.375 lbs [170.1 g] |
| Aluminum, Paint |
| |

Connectors

| Connector 1 | Connector 2 | | |
|------------------------|--------------------------------------|--|--|
| BNC Female | BNC Female | | |
| Beryllium Copper, Gold | Beryllium Copper, Gold | | |
| Brass, Nickel | Brass, Nickel | | |
| | BNC Female Beryllium Copper, Gold | | |

Environmental Specifications

| T | e | n | 1 | р | e | r | a | t | u | r | e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |

Operating Range

-20 to 85 deg C

FMAT1041B DATA SHEET



Features:

- 1, 2, 4, 8, 16, 20, 20, and 20 dB step buttons
- 0 to 90 dB Attenuation
- 4% 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

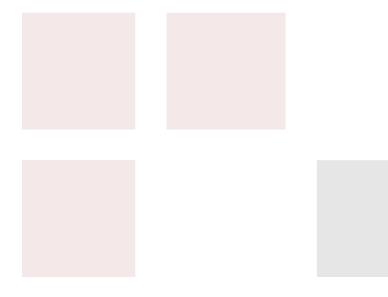
Notes:

0 to 90 dB Step Attenuator 50 Ohm BNC Female To 50 Ohm BNC Female With 1 dB Step Rated To 2 Watts Up To 3 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 BNC Female To 50 Ohm BNC Female With 1 dB Step Rated To 2 Watts Up To 3 GHz in a Push Button design FMAT1041B

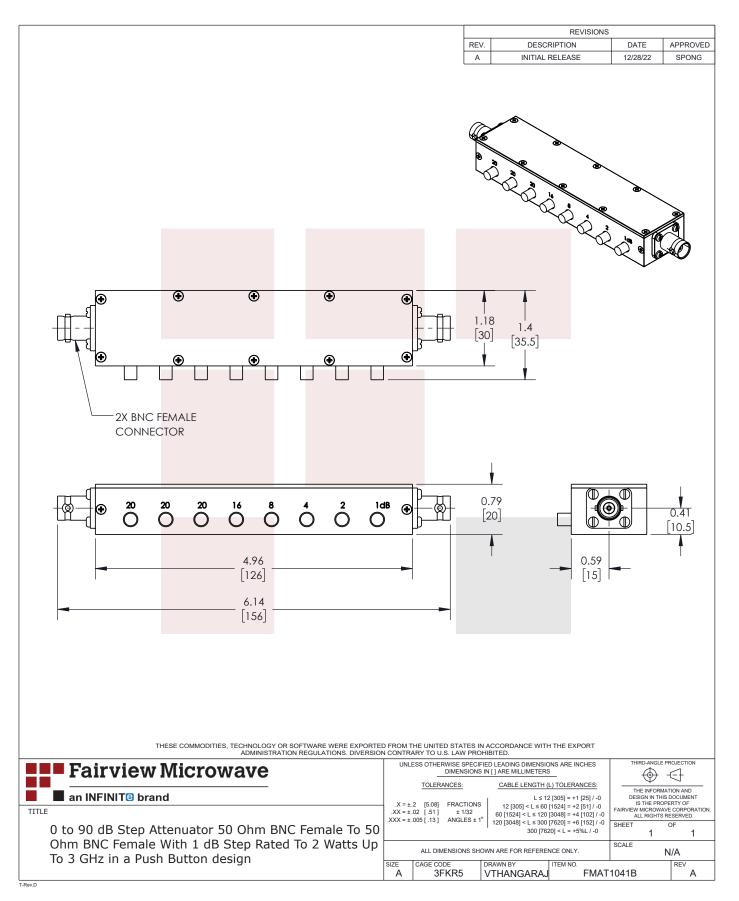
URL: https://www.fairviewmicrowave.com/90db-step-attenuator-1db-bnc-female-dc-3-ghz-2-watts-fmat1041b-p.aspx

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 to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



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