

FMAT1041S DATA SHEET

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

The FMAT1041S 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 SMA 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 to 90 | | | dB |
| Step Size | | 1 | | dB |
| Step Type | Push Button | | | |
| Accuracy Statement | ±2dB (<50dB Atten) ±4%dB (>50dB Atten) | | | Atten) |
| | | | | |
| Input Power (CW) | | | 2 | Watts |
| Input Power, Peak | | | 100 | Watts |
| 5 μs pulse width 2% d | uty cycle | | | |
| | | | | |

1.5:1

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

Features:

- SMA Female Connectors
- Maximum Power 2 Watts (CW)

Applications:

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

Mechanical Specifications

Size

VSWR

 Length
 5.709 in [145.01 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
 Aluminum, Paint

Connectors

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

Environmental Specifications Temperature

Operating Range -20 to 85 deg C

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Compliance Certifications (see product page for current document)

Plotted and Other Data

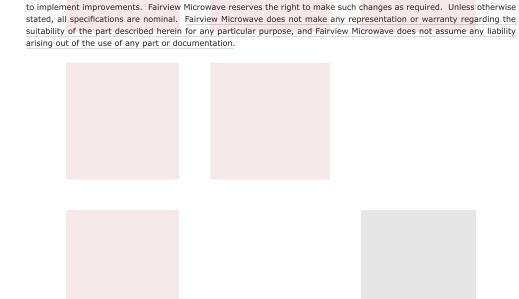
Notes:

0 to 90 dB Step Attenuator 50 Ohm SMA Female To 50 Ohm SMA 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 ondemand.

For additional information on this product, please click the following link: 0 to 90 dB Step Attenuator 50 Ohm SMA Female To 50 Ohm SMA Female With 1 dB Step Rated To 2 Watts Up To 3 GHz in a Push Button design FMAT1041S

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

URL: https://www.fairviewmicrowave.com/90db-step-attenuator-1db-sma-female-dc-3-ghz-2-watts-fmat1041s-p.aspx



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