

1 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) up to 26.5 GHz Rated to 2 Watts, Brass Gold Plated Body, 1.35:1 VSWR



FMAT7487-1

Features

- DC to 26.5 GHz Range
- Attenuation 1 ±1 dB
- 2 Watts Average Input Power
- VSWR <1.35:1

Applications

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

Description

Fairview Microwave carries a broad selection of fixed attenuators with a wide range of attenuation levels, frequency ranges, and power dissipation ranges. Also known as RF pads, RF microwave attenuators lower the amplitude of a signal (attenuate) a known amount. These attenuators pads can be used in a wide variety of applications including reducing a signal level to protect measurement equipment or other circuitry, extending the range of power meters and amplifiers, and impedance matching circuits by reducing the VSWR seen by adjacent components. RF attenuators can prevent signal overload in amplifiers, receivers and detectors, adjusting the signal level to a range that is optimal.

Few RF components are as commonly used as fixed coaxial attenuators, and Fairview Microwave carries one of the largest in-stock varieties and ships them same day. The FMAT7487-1 is a 1 dB Fixed Attenuators that operates from DC to 26.5 GHz and is rated to 2 Watts. The versatile coaxial package uses SMA male to SMA female connectors.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|----------------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 26.5 | GHz |
| Impedance | | 50 | | Ohms |
| Nominal Attenuation | | 1 | | dB |
| VSWR | | | 1.35:1 | |
| Input Power, CW | | | 2 | Watts |
| Derated linearly to 0.5W @ 125°C | | | | |
| Input Power, Peak | | | 500 | Watts |
| 5µs pulse, 0.4% duty cycle | | | | |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---------------------------|------------|----|----|----|----|-------|
| Frequency Range | DC to 26.5 | | | | | GHz |
| Attenuation Accuracy, Typ | 1 | | | | | dB |

Mechanical Specifications

Size

| | |
|---------------------------|----------------------|
| Length | 1.181 in [30 mm] |
| Width/Diameter | 0.394 in [10.01 mm] |
| Weight | 0.0221 lbs [10.02 g] |
| Body Material and Plating | Brass, Gold |

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Configuration

| | |
|---------------|----------------------|
| Design | Fixed, Bidirectional |
| Package Style | Connectorized |

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------|-------------|------------------------|
| Type | SMA Male | SMA Female |
| Contact Material and Plating | Brass, Gold | Beryllium Copper, Gold |
| Body Material and Plating | Brass, Gold | Brass, Gold |

Environmental Specifications

| | |
|--------------------|-------------------|
| Temperature | |
| Operating Range | -55 to +125 deg C |

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

Plotted and Other Data

Notes:

Typical Performance Data

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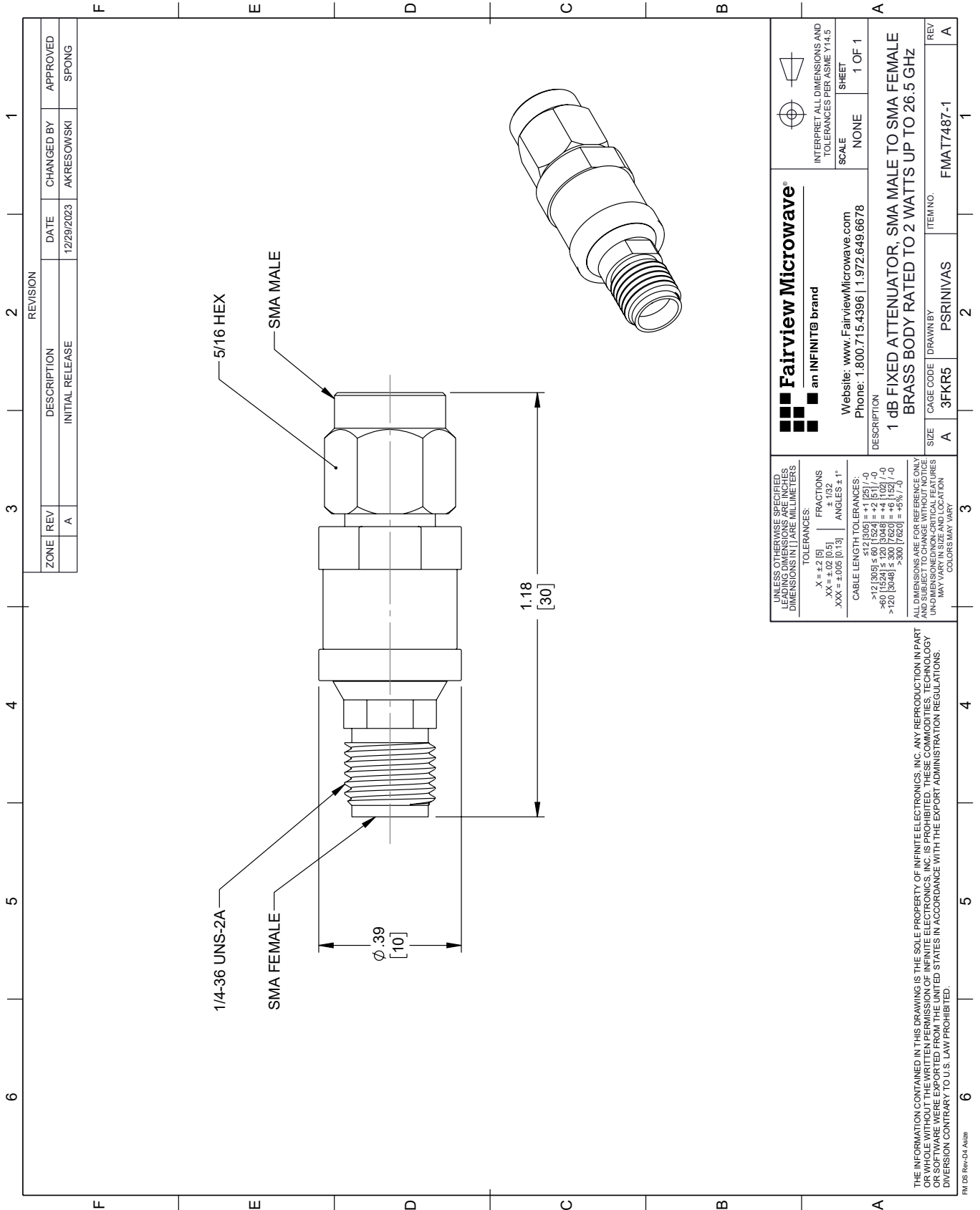
For additional information on this product, please click the following link: [1 dB Fixed Attenuator SMA Male \(Plug\) to SMA Female \(Jack\) up to 26.5 GHz Rated to 2 Watts, Brass Gold Plated Body, 1.35:1 VSWR FMAT7487-1](#)

URL: <https://www.fairviewmicrowave.com/1db-fixed-attenuator-sma-male-sma-female-2-watts-fmat7487-1-p.aspx>

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FMAT7487-1 CAD Drawing

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| REVISION | | DATE | CHANGED BY | APPROVED |
|----------|-----|-------------|-----------------|----------|
| ZONE | REV | DESCRIPTION | INITIAL RELEASE | |
| | A | | | SPONG |

| | | | |
|---|-----------|---|--|
| an INFINIT® brand | | Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678 | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1 |
| UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS IN [] ARE MILLIMETERS. | | TOLERANCES: .X = ±.2 [5] FRACTIONS ± 1/32 .XX = ±.02 [0.5] ANGLES ± 1° .XXX = ±.005 [0.13] | |
| ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS IN [] ARE MILLIMETERS. | | CABLE LENGTH TOLERANCES: <12 [305] ≤ 60 [1524] = ±.1 [25] / -0 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0 >120 [3048] ≤ 300 [7620] = ±.6 [15] / -0 | |
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| SIZE | A | CAGE CODE | 3FKR5 |
| DRAWN BY | PSRINIVAS | ITEM NO. | FMAT7487-1 |
| REV | A | | |