

1 dB Fixed Attenuator SMP Male (Plug) to SMP Female (Jack) Up to 18 GHz Rated to 1 Watt, Stainless Steel Body, 1.35:1 VSWR



FMAT7470-1

Features

- DC to 18 GHz Frequency Range
- SMP Connectorized Design
- Attenuation 1 dB \pm 0.8 dB
- Max Power 1 Watt (CW)
- Max VSWR of 1.35:1

Applications

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

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 (or attenuate) a known amount. These attenuator 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 FMAT7470-1 is a 1 dB Fixed Attenuator that operates from DC to 18 GHz and is rated to 1 Watt. The versatile coaxial package uses SMP male to SMP female connectors.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--|---------|---------|---------|-------|
| Frequency Range | DC | | 18 | GHz |
| Impedance | | 50 | | Ohms |
| Nominal Attenuation | | 1 | | dB |
| Attenuation Accuracy | | 0.8 | | dB |
| VSWR | | | 1.35:1 | |
| Input Power, CW | | | 1 | Watt |
| average to 25°C ambient temperature, derated linearly to 0.5W @ 125°C. | | | | |
| Input Power, Peak | | | 100 | Watts |
| 5μs pulse, 1% duty cycle | | | | |

Mechanical Specifications

Size

- Length 0.835 in [21.21 mm]
- Width/Diameter 0.315 in [8 mm]
- Height 0.315 in [8 mm]
- Weight 0.01 lbs [4.54 g]
- Body Material and Plating Stainless Steel

Configuration

- Design Fixed, Bidirectional
- Package Style Connectorized Module

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------|------------------------|------------------------|
| Type | SMP Male | SMP Female |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Body Material and Plating | Stainless Steel | Stainless Steel |

Environmental Specifications

Temperature

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

Plotted and Other Data

Notes:

Typical Performance Data

1 dB Fixed Attenuator SMP Male (Plug) to SMP Female (Jack) Up to 18 GHz Rated to 1 Watt, Stainless Steel Body, 1.35:1 VSWR 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: [1 dB Fixed Attenuator SMP Male \(Plug\) to SMP Female \(Jack\) Up to 18 GHz Rated to 1 Watt, Stainless Steel Body, 1.35:1 VSWR FMAT7470-1](#)

URL: <https://www.fairviewmicrowave.com/1db-fixed-attenuator-male-female-1-watt-fmat7470-1-p.aspx>

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FMAT7470-1 CAD Drawing

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