

10 dB RF Fixed Attenuator SMA Male (Plug)
to SMA Female (Jack), DC to 6GHz Rated to
2 Watt, Stainless Steel Body, 1.35:1 VSWR



FMAT7608-10

Features

- DC to 6 GHz Range
- Attenuation 10 \pm 0.6 dB
- 2 Watts (CW) Power
- VSWR <1.35:1

Applications

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

Description

Fairview Microwave carries a wide range of fixed attenuators with a broad selection of attenuation levels, frequency ranges, and power dissipation ranges. RF microwave attenuators (also known as RF pads) lower the amplitude of a signal (attenuate) a known amount and can be used in a wide variety of applications. These attenuators pads are used when a signal needs to be reduced to protect measurement equipment or other circuitry, to extend the range of power meters and amplifiers, and to impedance match 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 10 dB Fixed Attenuators FMAT7608-10 is rated to 2 Watts and operates from DC to 6 GHz. The versatile coaxial package uses SMA male to SMA female connectors.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|----------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 6 | GHz |
| Impedance | | 50 | | Ohms |
| Nominal Attenuation | | 10 | | dB |
| Attenuation Accuracy | | 0.6 | | dB |
| VSWR | | | 1.35:1 | |
| Input Power, CW | | | 2 | Watts |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------|---------|--------|----|----|----|-------|
| Frequency Range | DC to 4 | 4 to 6 | | | | GHz |
| VSWR, Max | 1.2:1 | 1.35:1 | | | | |

Mechanical Specifications

Size

| | |
|---------------------------|----------------------------|
| Length | 0.98 in [24.89 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 | Passivated Stainless Steel |

Configuration

| | |
|--------|----------------------|
| Design | Fixed, Bidirectional |
|--------|----------------------|

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Connectors

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

Environmental Specifications

Temperature

Operating Range -50 to +85 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: [10 dB RF Fixed Attenuator SMA Male \(Plug\) to SMA Female \(Jack\), DC to 6GHz Rated to 2 Watt, Stainless Steel Body, 1.35:1 VSWR FMAT7608-10](#)

URL: <https://www.fairviewmicrowave.com/10db-fixed-attenuator-sma-male-sma-female-2-watts-fmat7608-10-p.aspx>

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FMAT7608-10 CAD Drawing

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