

6 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 12.4 GHz Rated to 5 Watts, Black Aluminum Body, 1.25:1 VSWR



FMAT7460-6

Features

- DC to 12.4 GHz Frequency Range
- SMA Connectorized Design
- Attenuation 6 dB \pm 0.5 dB
- Max Power 5 Watts (CW)
- Max VSWR of 1.25:1

Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems
- WIFI 6E
- 5G Cellular Bands

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 FMAT7460-6 is a 6 dB Fixed Attenuator that operates from DC to 12.4 GHz and is rated to 5 Watts. The versatile coaxial package uses SMA male to SMA female connectors.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 12.4 | GHz |
| Impedance | | 50 | | Ohms |
| Nominal Attenuation | | 6 | | dB |
| Attenuation Accuracy | | 0.5 | | dB |
| VSWR | | | 1.25:1 | |
| Input Power, CW | | | 5 | Watts |
| Derated linearly to 0.5W at 125°C | | | | |
| Input Power, Peak | | | 500 | Watts |
| 5 μ s pulse, 1% Duty Cycle | | | | |

Mechanical Specifications

Size

| | |
|---------------------------|-------------------------|
| Length | 3.03 in [76.96 mm] |
| Width/Diameter | 0.79 in [20.07 mm] |
| Height | 0.79 in [20.07 mm] |
| Weight | 0.012 lbs [5.44 g] |
| Body Material and Plating | Black Anodized Aluminum |

Configuration

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

6 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 12.4 GHz Rated to 5 Watts, Black Aluminum Body, 1.25:1 VSWR



FMAT7460-6

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, Nickel | Brass, Nickel |

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

6 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 12.4 GHz Rated to 5 Watts, Black Aluminum Body, 1.25:1 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: [6 dB Fixed Attenuator SMA Male \(Plug\) to SMA Female \(Jack\) Up to 12.4 GHz Rated to 5 Watts, Black Aluminum Body, 1.25:1 VSWR FMAT7460-6](#)

URL: <https://www.fairviewmicrowave.com/6db-fixed-attenuator-sma-male-sma-female-5-watts-fmat7460-6-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

6 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 12.4 GHz
Rated to 5 Watts, Black Aluminum Body, 1.25:1 VSWR

