

30 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Unidirectional Up to 12.4 GHz Rated to 10 Watts, Black Aluminum Body, 1.3:1 VSWR



**FMAT7463-30**

**Features**

- DC to 12.4 GHz Frequency Range
- SMA Connectorized Design
- Attenuation 30 dB  $\pm$ 0.6 dB
- Max Power 10 Watts (CW)
- Max VSWR of 1.3:1

**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 FMAT7463-30 is a 30 dB Fixed Attenuator that operates from DC to 12.4 GHz and is rated to 10 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             |         | 30      |         | dB    |
| Attenuation Accuracy            |         | 0.6     |         | dB    |
| VSWR                            |         |         | 1.3:1   |       |
| Input Power, CW                 |         |         | 10      | Watts |
| Derated linearly to 1W at 125°C |         |         |         |       |
| Input Power, Peak               |         |         | 500     | Watts |
| 5 $\mu$ s pulse, 2% 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 0.116 lbs [52.62 g]
- Body Material and Plating Black Anodized Aluminum

**Configuration**

- Design Fixed, Unidirectional

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### 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

30 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Unidirectional Up to 12.4 GHz Rated to 10 Watts, Black Aluminum Body, 1.3:1 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: [30 dB Fixed Attenuator SMA Male \(Plug\) to SMA Female \(Jack\) Unidirectional Up to 12.4 GHz Rated to 10 Watts, Black Aluminum Body, 1.3:1 VSWR FMAT7463-30](#)

URL: <https://www.fairviewmicrowave.com/30db-fixed-attenuator-sma-male-sma-female-10-watts-fmat7463-30-p.aspx>

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# FMAT7463-30 CAD Drawing

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