

# 1 dB Fixed Attenuator, 4.3-10 Male (Plug) to 4.3-10 Female (Jack) Up to 6 GHz Rated to 2 Watts, 1.3:1 VSWR



## **FMAT7451-1**

#### **Features**

- · DC to 6 GHz Frequency Range
- 4.3-10 Connectorized Design
- Attenuation 1 dB ±0.5 dB

## **Applications**

- Instrumentation
- · Precision Measurements

- Max Power 2 Watts(CW)
- Typical VSWR of 1.3:1
- · 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 FMAT7451-1 is a 1 dB Fixed Attenuator that operates from DC to 6 GHz and is rated to 2 Watts. The versatile coaxial package uses 4.3-10 male to 4.3-10 female connectors.

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		1		dB
Attenuation Accuracy			±0.5	dB
VSWR			1.3:1	
Input Power, CW			2	Watts
Input Power, Peak			500	Watts
5µs PW, 0.4% duty cycle				

## **Mechanical Specifications**

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 Length
 2.874 in [73 mm]

 Width/Diameter
 0.709 in [18.01 mm]

 Height
 0.709 in [18.01 mm]

 Weight
 0.5 lbs [226.8 g]

 Body Material and Plating
 Brass, Nickel

## Configuration

Design Fixed

Package Style Connectorized



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#### **Connectors**

Description	Connector 1	Connector 2
Туре	4.3-10 Male	4.3-10 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 Storage Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

#### **Typical Performance Data**

1 dB Fixed Attenuator, 4.3-10 Male (Plug) to 4.3-10 Female (Jack) Up to 6 GHz Rated to 2 Watts, 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: 1 dB Fixed Attenuator, 4.3-10 Male (Plug) to 4.3-10 Female (Jack) Up to 6 GHz Rated to 2 Watts, 1.3:1 VSWR FMAT7451-1

URL: https://www.fairviewmicrowave.com/1db-fixed-attenuator-4.3-10-male-4.3-10-female-2-watts-fmat7451-1-p.aspx

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## FMAT7451-1 CAD Drawing

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