

## FMAT7450-3 DATA SHEET

# 3 dB Fixed Attenuator, 1.0 mm Male to 1.0 mm Female Up to 110 GHz Rated to 0.2 Watts

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 attenuator 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 3 dB Fixed Attenuator FMAT7450-3 is rated to 0.2 Watts and operates from DC to 110 GHz. The versatile coaxial package uses 1.0 mm (W1) male to 1.0 mm (W1) female connectors.



Description	Min	Тур	Max	Units
Frequency Range	DC		110	GHz
Impedance		50		Ohms
Nominal Attenuation		3		dB
Attenuation Accuracy			±2	dB
VSWR			1.9:1	
Input Power, CW			0.2	Watts

#### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 15	15 to 50	50 to 105	105 to 110		GHz
VSWR, Max	1.2:1	1.4:1	1.7:1	1.9:1		
Attenuation Acc., M	lax ±1	±2	±2	±2		dB

### **Mechanical Specifications**

Size

 Length
 1.1 in [27.94 mm]

 Width/Diameter
 0.433 in [11 mm]

 Height
 0.433 in [11 mm]

 Weight
 0.15 lbs [68.04 g]

Configuration

Design Fixed Package Style Connectorized

#### **Connectors**

Description	Connector 1	Connector 2
Туре	1.0mm Female	1.0mm Male



#### **Features:**

- DC to 110 GHz Frequency Range
- 1.0 mm (W1) Connectorized Design
- Attenuation 3 dB
- Max Power 0.2 Watts (CW)
- Typical VSWR of 1.4:1

## **Applications:**

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

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## **Environmental Specifications**

**Temperature** 

Operating Range +0 to +70 deg C Storage Range -55 to +125 deg C

Humidity 95% at 40 °C, 96 hours, Test 103B, Condition B Shock 100 Gn peak sawtooth, method 213, Condition B

**Compliance Certifications** (see product page for current document)

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

Notes:

3 dB Fixed Attenuator, 1.0 mm Male to 1.0 mm Female Up to 110 GHz Rated to 0.2 Watts from Fairview Microwave is instock 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: 3 dB Fixed Attenuator, 1.0 mm Male to 1.0 mm Female Up to 110 GHz Rated to 0.2 Watts FMAT7450-3

URL: https://www.fairviewmicrowave.com/3db-fixed-attenuator-1.0mm-female-1.0mm-male-0.2-watts-fmat7450-3-p. aspx

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