

20dB DC Bias Attenuator 50 Ohm SMA Male (Plug) to 50 Ohm SMA Female (Jack) Up to 3GHz Rated to 2 Watts Brass Tri-Metal Body, 1.35:1 VSWR

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 FMAT7447-20 is a 20 dB DC passing Fixed Attenuator that operates from 100 MHz to 3 GHz and is rated to 2 Watts and 0.1A DC current. FMAT7447-20 would only attenuate RF signal without reducing the DC current passing through the part. The versatile coaxial package uses SMA male to SMA female connectors.

Electrical Specifications

Description	Min	Тур	Мах	Units
Frequency Range	0.1		3	GHz
Impedance		50		Ohms
Attenuation Value		20		dB
Attenuation Accuracy		±5		dB
Input Power (CW)			2	Watts
VSWR			1.35:1	
Maximum DC Bias Voltag	ge		100	Volts
Maximum DC Bias Curre	nt		0.1	A

Mechanical Specifications

Size	
Length, in [mm]	1.22 [30.99]
Width, in [mm]	0.315 [8]
Height, in [mm]	0.315 [8]
Weight, lbs [g]	0.013 [5.9]



FMAT7447-20 DATA SHEET

Features:

- 0.1GHz to 3GHz
- Frequency RangeInput Power 2 Watts (CW)
- 50ohm impedance
- Suonm Impedance
- Attenuation 20±5dB
- DC Bias Current 100mA Max
- VSWR < 1.35:1

Applications:

- Instrumentation
- Prototyping and characterization
- RF test systems
- Radar systems

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Configuration:

DesignDC BiasBody Material and PlatingBrass, Tri-Metal

Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male	SMA Female	
Contact Material & Plating	Beryllium Copper, Gold		
Outer Cond Material & Plating	Beryllium Copper, Gold		

Compliance Certifications (see for current document)

Plotted and Other Data

Notes:

Values at 25 °C, sea level

Typical Performance Data

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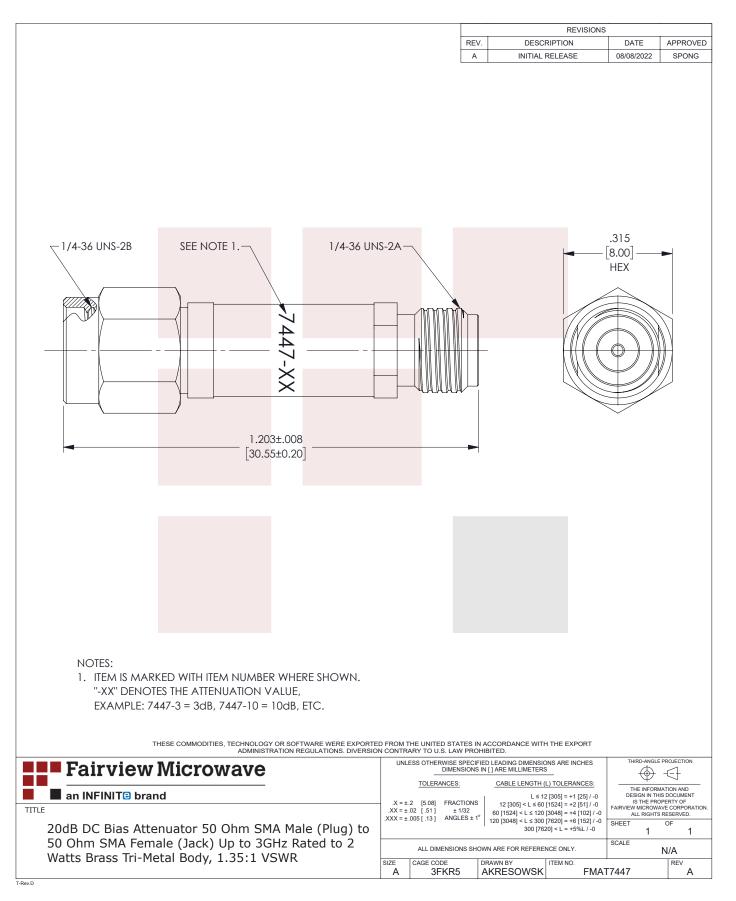
For additional information on this product, please click the following link: 20dB DC Bias Attenuator 50 Ohm SMA Male (Plug) to 50 Ohm SMA Female (Jack) Up to 3GHz Rated to 2 Watts Brass Tri-Metal Body, 1.35:1 VSWR FMAT7447-20

URL: https://www.fairviewmicrowave.com/20db-dc-bias-attenuator-sma-male-sma-female-2-watts-fmat7447-20-p.aspx

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