

FMAT7448-20 DATA SHEET

20dB DC Bias Attenuator 50 Ohm N Male (Plug) to 50 Ohm N 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 FMAT7448-20 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. FMAT7448-20 would only attenuate RF signal without reducing the DC current passing through the part. The versatile coaxial package uses N male to N female connectors.



Description	Min	Тур	Max	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	Α

Mechanical Specifications

Size

Length, in [mm]	2.311 [58.7]
Width, in [mm]	0.827 [21.01]
Height, in [mm]	0.827 [21.01]
Weight, lbs [g]	0.154 [69.85]



Features:

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

Applications:

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

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Configuration:

Design	DC Bias
Body Material and Plating	Brass, Tri-Metal

Connectors

Description	Connector 1	Connector 2
Туре	N Male	N 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

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

For additional information on this product, please click the following link: 20dB DC Bias Attenuator 50 Ohm N Male (Plug) to 50 Ohm N Female (Jack) Up to 3GHz Rated to 2 Watts Brass Tri-Metal Body, 1.35:1 VSWR FMAT7448-20

URL: https://www.fairviewmicrowave.com/20db-dc-bias-attenuator-n-male-n-female-2-watts-fmat7448-20-p.aspx

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