20 dB Fixed Attenuator NEX10 Male (Plug) to NEX10 Female (Jack) Up to 6 GHz Rated to 5 Watts, Aluminum Body, 1.25:1 VSWR

FMAT7490-20

Features

- DC to 6 GHz Range
- NEX10 Connectorized Design
- Attenuation 20 ±2 dB
- Max Power 5 Watts (CW)
- VSWR 1.25:1

Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems
- 5G Cellular Bands
- DAS 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 FMAT7490-20 is a 20 dB Fixed Attenuator that operates from DC to 6 GHz and is rated to 5 Watts. The versatile coaxial package uses NEX10 male to NEX10 female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
Attenuation Accuracy		2		dB
VSWR			1.25:1	
Input Power, CW			5	Watts
Input Power, Peak			50	Watts
20µs pulse, 8% duty cycle				

Mechanical Specifications

Size

Length	2.24409 in [57 mm]
Width/Diameter	0.7874 in [20 mm]
Height	0.7874 in [20 mm]
Weight	0.2 lbs [90.72 g]
Body Material and Plating	Aluminum

Configuration

Design	Fixed, Bidirectional
Design Type	Standard
Package Style	Connectorized

© 2025 Infinite Electronics, Inc. Fairview Microwave is a registered trademark of Infinite Electronics, Inc.
+1 (866) 839-4711 | sales@fairviewmicrowave.com | fairviewmicrowave.com

20 dB Fixed Attenuator NEX10 Male (Plug) to NEX10 Female (Jack) Up to 6 GHz Rated to 5 Watts, Aluminum Body, 1.25:1 VSWR

FMAT7490-20

Connectors

Description	Connector 1	Connector 2
Type	NEX10 Male	NEX10 Female
Contact Material and Plating	Beryllium Copper, Silver	Beryllium Copper, Silver
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

Environmental Specifications

Temperature

Operating Range	-40 to +75 deg C
Storage Range	+85 to -50 deg C
Humidity	<95%
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6-Fc
Altitude	<5000m
Thermal Shock	IEC 60068-2-14-Na

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

20 dB Fixed Attenuator NEX10 Male (Plug) to NEX10 Female (Jack) Up to 6 GHz Rated to 5 Watts, Aluminum Body, 1.25:1 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: 20 dB Fixed Attenuator NEX10 Male (Plug) to NEX10 Female (Jack) Up to 6 GHz Rated to 5 Watts, Aluminum Body, 1.25:1 VSWR FMAT7490-20

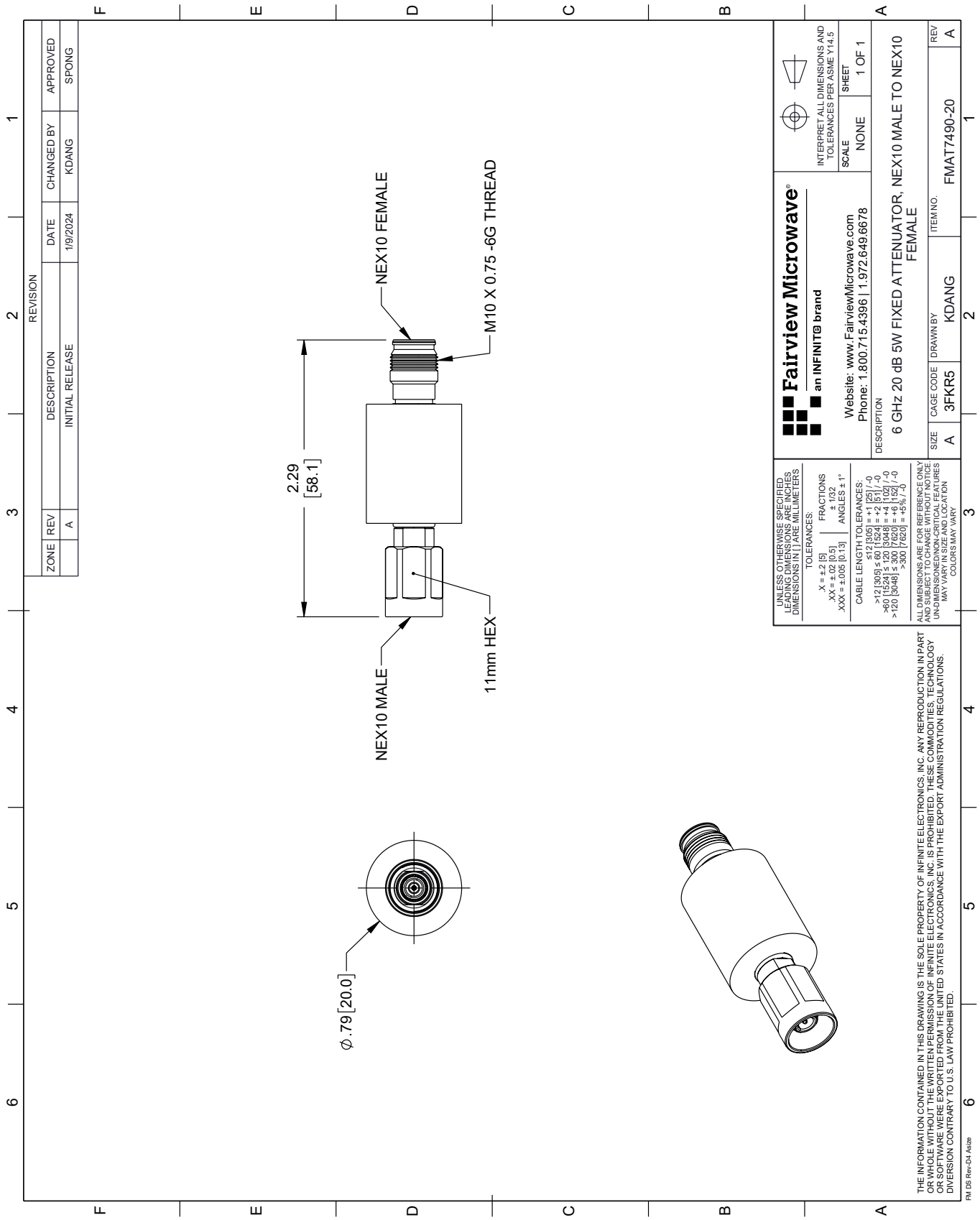
URL: https://www.fairviewmicrowave.com/20db-fixed-attenuator-nex10-male-nex10-female-5-watts-fmat7490-20-p.aspx

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

© 2025 Infinite Electronics, Inc. Fairview Microwave is a registered trademark of Infinite Electronics, Inc.

FMAT7490-20 CAD Drawing

20 dB Fixed Attenuator NEX10 Male (Plug) to NEX10 Female (Jack) Up to 6 GHz Rated to 5 Watts, Aluminum Body, 1.25:1 VSWR



© 2025 Infinite Electronics, Inc. Fairview Microwave is a registered trademark of Infinite Electronics, Inc.