

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



FMAT7490-10

Features

- · DC to 6 GHz Range
- NEX10 Connectorized Design
- Attenuation 10 ±1 dB

Applications

- · Instrumentation
- · Precision Measurements
- · Prototyping and Characterization

- Max Power 5 Watts (CW)
- VSWR 1.25:1
- · 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 FMAT7490-10 is a 10 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		10		dB
Attenuation Accuracy		1		dB
VSWR			1.25:1	
Input Power, CW			5	Watts
Input Power, Peak			50	Watts
20µs pulse, 8% duty cycle				

Mechanical Specifications

Size

 Length
 2.244 in [57 mm]

 Width/Diameter
 0.787 in [19.99 mm]

 Weight
 0.1 lbs [45.36 g]

 Body Material and Plating
 Aluminum

Configuration

Design Fixed, Bidirectional Design Type Standard Connectorized



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Connectors

Description	Connector 1	Connector 2	
Туре	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

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For additional information on this product, please click the following link: 10 dB Fixed Attenuator NEX10 Male (Plug) to NEX10 Female (Jack) Up to 6 GHz Rated to 5 Watts, Aluminum Body, 1.25:1 VSWR FMAT7490-10

URL: https://www.fairviewmicrowave.com/10db-fixed-attenuator-nex10-male-nex10-female-5-watts-fmat7490-10-p.aspx

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FMAT7490-10 CAD Drawing

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