

6 dB Fixed Attenuator, NEX10 Male to NEX10 Female Aluminum Body Rated to 10 Watts Up to 6 GHz



PE7491-6

Features

- DC to 6 GHz Range
- NEX10 Connectorized Design
- Attenuation 6 $\pm$ 1 dB
- Max Power 10 Watts (CW)
- VSWR 1.25:1

Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems
- 5G Cellular Bands
- DAS Systems

Description

Pasternack 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 attenuators 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 Pasternack carries one of the largest in-stock varieties and ships them same day. The 6 dB Fixed Attenuators PE7491-6 is rated to 10 Watts and operates from DC to 6 GHz. 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		6		dB
Attenuation Accuracy		1		dB
VSWR			1.25:1	
Input Power, CW			10	Watts
Input Power, Peak			100	Watts
20 μ s 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
Package Style	Connectorized

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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

6 dB Fixed Attenuator, NEX10 Male to NEX10 Female Aluminum Body Rated to 10 Watts Up to 6 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [6 dB Fixed Attenuator, NEX10 Male to NEX10 Female Aluminum Body Rated to 10 Watts Up to 6 GHz PE7491-6](#)

URL: <https://www.pasternack.com/6db-fixed-nex10-male-nex10-female-10-watts-attenuator-pe7491-6-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 implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

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