

6 dB Fixed Attenuator, SMA Male to SMA Female Black Anodized Aluminum Body Rated to 10 Watts Up to 26.5 GHz



PE7489-6

Features

- DC to 26.5 GHz Range
- Attenuation 6 ±1 dB
- 10 Watts Average Input Power
- VSWR <1.35:1

Applications

- Precision Measurements
- Production Systems
- Instrumentation
- Prototyping and Characterization

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 PE7489-6 is rated to 10 Watts and operates from DC to 26.5 GHz. The versatile coaxial package uses SMA male to SMA female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	GHz
Impedance		50		Ohms
Nominal Attenuation		6		dB
VSWR			1.35:1	
Input Power, CW			10	Watts
Derated linearly to 1W @ 125°C				
Input Power, Peak			500	Watts
5µs pulse, 2% duty cycle				

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 26.5					GHz
Attenuation Accuracy, Typ	1					dB

Mechanical Specifications

Size

Length	1.89 in [48.01 mm]
Width/Diameter	0.65 in [16.51 mm]
Weight	0.0331 lbs [15.01 g]
Body Material and Plating	Black Anodized Aluminum

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Configuration

Design	Fixed, Bidirectional
Package Style	Connectorized

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Body Material and Plating	Brass, Nickel	Brass, Nickel

Environmental Specifications

Temperature	
Operating Range	-55 to +125 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data

6 dB Fixed Attenuator, SMA Male to SMA Female Black Anodized Aluminum Body Rated to 10 Watts Up to 26.5 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, SMA Male to SMA Female Black Anodized Aluminum Body Rated to 10 Watts Up to 26.5 GHz PE7489-6](#)

URL: <https://www.pasternack.com/6db-fixed-sma-male-sma-female-10-watts-attenuator-pe7489-6.aspx>

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PE7489-6 CAD Drawing

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Aluminum Body Rated to 10 Watts Up to 26.5 GHz

