



10dB RF fixed attenuator 50W, DC to 18GHz, SMA male to SMA female

RF Fixed Attenuators Technical Data Sheet

PE7603-10

Features

- Bidirectional
- DC to 18 GHz Range
- Attenuation 10 +/- 1.5 dB
- 50 Watts Average Input Power
- VSWR <1.45:1

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 10 dB Fixed Attenuators PE7603-10 is rated to 50 Watts and operates from DC to 18 GHz. The versatile coaxial package uses SMA male to SMA female connectors and is also REACH and RoHS compliant.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Nominal Attenuation		10		dB
VSWR			1.45:1	
Input Power, CW			50	Watts
Input Power, Peak 5µs pulse w/ 5% duty cycle			1	kWatts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10dB RF fixed attenuator 50W, DC to 18GHz, SMA male to SMA female PE7603-10](#)



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Mechanical Specifications

Size

Length	5.19684 in [132 mm]
Width/Diameter	1.77165 in [45 mm]
Height	1.77165 in [45 mm]
Weight	0.08 lbs [36.29 g]
Body Material and Plating	Black Anodized Aluminum

Configuration

Design	Fixed, Bidirectional
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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	+125 to -55 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

10dB RF fixed attenuator 50W, DC to 18GHz, SMA male to SMA female 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.

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URL:

PE7603-10 CAD Drawing

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