

10 dB Fixed Attenuator SMP Male to SMP Female Stainless Steel Body Rated to 1 Watt Up to 18 GHz



PE7470-10

Features

- DC to 18 GHz Frequency Range
- SMP Connectorized Design
- Attenuation 10 dB $\pm$ 0.8 dB
- Max Power 1 Watt (CW)
- Max VSWR of 1.35:1

Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production 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 attenuator 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 Attenuator PE7470-10 is rated to 1 Watt and operates from DC to 18 GHz. The versatile coaxial package uses SMP male to SMP female connectors and is also REACH compliant.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Nominal Attenuation		10		dB
Attenuation Accuracy		0.8		dB
VSWR			1.35:1	
Input Power, CW			1	Watt
average to 25°C ambient temperature, derated linearly to 0.5W @ 125°C.				
Input Power, Peak			100	Watts
5μs pulse, 1% duty cycle				

Mechanical Specifications

Size

Length	0.835 in [21.21 mm]
Width/Diameter	0.315 in [8 mm]
Height	0.315 in [8 mm]
Weight	0.005 lbs [2.27 g]
Body Material and Plating	Stainless Steel

Configuration

Design	Fixed, Bidirectional
Package Style	Connectorized Module

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Connectors

Description	Connector 1	Connector 2
Type	SMP Male	SMP Female
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material and Plating	Stainless Steel	Stainless Steel

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

10 dB Fixed Attenuator SMP Male to SMP Female Stainless Steel Body Rated to 1 Watt Up to 18 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: [10 dB Fixed Attenuator SMP Male to SMP Female Stainless Steel Body Rated to 1 Watt Up to 18 GHz PE7470-10](#)

URL: <https://www.pasternack.com/10db-fixed-male-female-1-watt-attenuator-pe7470-10-p.aspx>

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PE7470-10 CAD Drawing

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