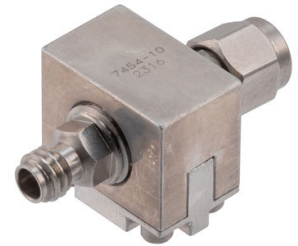


## 10 dB Fixed Attenuator, 1.0 mm Male to 1.0 mm Female Rated to 0.5 Watts Up to 110 GHz



### PE7454-10

#### Features

- DC to 110 GHz Frequency Range
- 1.0 mm Connectorized Design
- Attenuation 10 dB
- Max Power 0.5 Watts (CW)
- Typical VSWR of 1.8:1

#### 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 PE7454-10 is rated to 0.5 Watts and operates from DC to 110 GHz. The versatile coaxial package uses 1.0 mm male to 1.0 mm female connectors.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		110	GHz
Impedance		50		Ohms
Nominal Attenuation		10		dB
VSWR		1.8:1	2.5:1	
Input Power, CW			0.5	Watts
Derated linearly to 10% @ 100°C from 25°C				

#### Specifications by Frequency

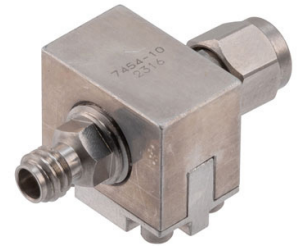
Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 26.5	26.5 to 40	40 to 60	60 to 110		GHz
VSWR, Max	1.35:1	1.55:1	1.65:1	2.5:1		
Attenuation Accuracy, Typ	0.75	1.25	1.5	1.75		dB

#### Mechanical Specifications

##### Size

Length	0.5 in [12.7 mm]
Width/Diameter	0.92 in [23.37 mm]
Height	0.46 in [11.68 mm]
Weight	0.02 lbs [9.07 g]
Body Material and Plating	Passivated Stainless Steel

## 10 dB Fixed Attenuator, 1.0 mm Male to 1.0 mm Female Rated to 0.5 Watts Up to 110 GHz



### PE7454-10

#### Configuration

Design	Fixed, Bi-Directional
Package Style	Connectorized

#### Connectors

Description	Connector 1	Connector 2
Type	1.0mm Male	1.0mm Female
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	Teflon	Teflon
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

#### Environmental Specifications

##### Temperature

Operating Range	-55 to +100 deg C
Storage Range	-55 to +100 deg C

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

#### Plotted and Other Data

Notes:

#### Typical Performance Data

10 dB Fixed Attenuator, 1.0 mm Male to 1.0 mm Female Rated to 0.5 Watts Up to 110 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, 1.0 mm Male to 1.0 mm Female Rated to 0.5 Watts Up to 110 GHz PE7454-10](#)

URL: <https://www.pasternack.com/10db-fixed-1.0mm-male-1.0mm-female-0.5-watts-attenuator-pe7454-10-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.

PE7454-10 CAD Drawing

10 dB Fixed Attenuator, 1.0 mm Male to 1.0 mm Female Rated to 0.5 Watts Up to 110 GHz

