

6 dB Fixed Attenuator, 2.4mm Male to 2.4mm Female Aluminum Body Rated to 5 Watts Up to 50 GHz



PE7511-6

Features

- DC to 50 GHz Range
- Attenuation 6 ± 1.1 dB
- 5 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 6 dB Fixed Attenuators PE7511-6 is rated to 5 Watts and operates from DC to 50 GHz. The versatile coaxial package uses 2.4mm male to 2.4mm female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		50	GHz
Impedance		50		Ohms
Nominal Attenuation		6		dB
VSWR			1.45:1	
Input Power, CW			5	Watts
Derated linearly to 0.5W @ 125°C				
Input Power, Peak			200	Watts
5μs pulse, 2.5% duty cycle				

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 50					GHz
Attenuation Accuracy, Typ	1.1					dB

Mechanical Specifications

Size

Length	1.496 in [38 mm]
Width/Diameter	1.142 in [29.01 mm]
Weight	0.0441 lbs [20 g]
Body Material and Plating	Aluminum

6 dB Fixed Attenuator, 2.4mm Male to 2.4mm Female Aluminum Body Rated to 5 Watts Up to 50 GHz



PE7511-6

Configuration

Design

Fixed, Bidirectional

Connectors

Description	Connector 1	Connector 2
Type	2.4mm Male	2.4mm 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

6 dB Fixed Attenuator, 2.4mm Male to 2.4mm Female Aluminum Body Rated to 5 Watts Up to 50 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, 2.4mm Male to 2.4mm Female Aluminum Body Rated to 5 Watts Up to 50 GHz PE7511-6](#)

URL: <https://www.pasternack.com/6db-fixed-2.4mm-male-2.4mm-female-5-watts-attenuator-pe7511-6-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.

PE7511-6 CAD Drawing

6 dB Fixed Attenuator, 2.4mm Male to 2.4mm Female Aluminum Body Rated to 5 Watts Up to 50 GHz

