

30 dB Fixed Attenuator, 2.92mm Male to 2.92mm
Female Black Anodized Aluminum Heatsink
Body Rated to 10 Watts Up to 40 GHz



PE7AP4009-30

Features

- Directional
- DC to 40GHz Frequency Range
- Attenuation 30 dB
- Accuracy +/-1.0 dB typ
- Max Power 10W (CW)
- VSWR < 1.4:1

Applications

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

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 30 dB Fixed Attenuator PE7AP4009-30 is rated to 10 Watts and operates from DC to 40 GHz. The versatile coaxial package uses 2.92mm male to 2.92mm female connectors and is also REACH and RoHS compliant. The Black Anodized Aluminum Heatsink body allows for efficient heat dissipation under high power usage conditions.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Nominal Attenuation		30		dB
Attenuation Accuracy		1		dB
VSWR			1.4:1	
Input Power, CW			10	Watts
10W average to 25°C ambient temperature, derated linearly to 0.5W @ 125°C				
Input Power, Peak			200	Watts
5µs pulse, 1% duty cycle				

Mechanical Specifications

Size

Length	0 in [0 mm]
Width/Diameter	0 in [0 mm]
Height	0 in [0 mm]
Weight	0.132 lbs [59.87 g]
Body Material and Plating	Black Anodized Aluminum Heatsink

30 dB Fixed Attenuator, 2.92mm Male to 2.92mm
Female Black Anodized Aluminum Heatsink
Body Rated to 10 Watts Up to 40 GHz



PE7AP4009-30

Configuration

Design

Fixed, Directional

Package Style

Connectorized

Connectors

Description	Connector 1	Connector 2
Type	2.92mm Male	2.92mm Female
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Coupling Nut Material and Plating	Passivated Stainless Steel	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

Temperature

Operating Range

-55 to +100 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data

30 dB Fixed Attenuator, 2.92mm Male to 2.92mm Female Black Anodized Aluminum Heatsink Body Rated to 10 Watts Up to 40 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: [30 dB Fixed Attenuator, 2.92mm Male to 2.92mm Female Black Anodized Aluminum Heatsink Body Rated to 10 Watts Up to 40 GHz PE7AP4009-30](#)

URL: <https://www.pasternack.com/30db-fixed-2.92mm-male-2.92mm-female-10-watts-attenuator-pe7ap4009-30-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.

PE7AP4009-30 CAD Drawing

30 dB Fixed Attenuator, 2.92mm Male to 2.92mm Female Black Anodized Aluminum Heatsink Body Rated to 10 Watts Up to 40 GHz

Technical drawing of a cable assembly with three views:

- Top View:** A circular cable with a central nut. The diameter is labeled as $\phi 1.50$ [38].
- Side View:** A side view of the cable showing its length. The total length is 1.87 [47.6] inches. A central section of the cable is 1.13 [28.8] inches long.
- Perspective View:** A perspective view of the cable with a 2.92mm male connector.

Dimensions are given in inches and millimeters. The drawing includes a table of tolerances and fractions:

TOLERANCES:		FRACTIONS	
X = ±.2	[5.08]	XX = ±.02	[.51]
XXX = ±.005	[.13]	ANGLES ± 1°	
CABLE LENGTH (L) TOLERANCES:			
L ≤ 12 [305] = +1 [25] / -0			
12 [305] < L ≤ 60 [1524] = +2 [51] / -0			
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0			
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0			
300 [7620] < L = +5% / -0			

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.