

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



## PE7AP4009-40

### Features

- Directional
- DC to 40GHz Frequency Range
- Attenuation 40 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 40 dB Fixed Attenuator PE7AP4009-40 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		40		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

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### 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

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

URL: <https://www.pasternack.com/40db-fixed-2.92mm-male-2.92mm-female-10-watts-attenuator-pe7ap4009-40-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.

# PE7AP4009-40 CAD Drawing

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

The figure is a technical drawing of a cable assembly. It includes a top view showing a circular cable with a central connector, a side view showing the cable's length and the connector's details, and a third-angle projection. Dimensions are provided in inches and millimeters. A revision table is located in the bottom right corner.

**Top View:** A circular cable with a central connector. The diameter is labeled as  $\phi 1.50$  [38].

**Side View:** A side view of the cable assembly. The total length is labeled as 1.87 [47.6]. The distance from the center of the cable to the center of the connector is labeled as 1.13 [28.8]. The connector is labeled as 2.92mm MALE. The cable is labeled as 2.92mm FEMALE.

**Third-Angle Projection:** A third-angle projection of the cable assembly, showing the cable and the connector.

**Revision Table:**

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/12/2021	SPONG