

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



**PE7AP402-6**

**Features**

- Bidirectional
- DC to 40 GHz Frequency Range
- Attenuation 6±1.75 dB
- Max Power 10 Watts (CW)
- VSWR < 1.4:1

**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 6 dB Fixed Attenuator PE7AP402-6 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                              |         | 6       |         | dB    |
| VSWR   |         |         | 1.4:1   |       |
| Input Power, CW                                  |         |         | 10      | Watts |
| rated at +25°C, derated linearly to 0W at +125°C |         |         |         |       |
| Input Power, Peak                                |         |         | 200     | Watts |
| 5µs pulse, 1.25% duty cycle                      |         |         |         |       |

**Specifications by Frequency**

| Description               | F1       | F2       | F3 | F4 | F5 | Units |
|---------------------------|----------|----------|----|----|----|-------|
| Frequency Range           | DC to 18 | 18 to 40 |    |    |    | GHz   |
| VSWR, Max                 | 1.25:1   | 1.4:1    |    |    |    |       |
| Attenuation Accuracy, Typ | 1        | 1.75     |    |    |    | dB    |

Electrical Specification Notes:  
Values at +25°C, sea level.

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



## PE7AP402-6

### Mechanical Specifications

#### Size

|                           |                                  |
|---------------------------|----------------------------------|
| Length                    | 2.14 in [54.36 mm]               |
| Width/Diameter            | 1.5 in [38.1 mm]                 |
| Height                    | 0 in [0 mm]                      |
| Weight                    | 0.161 lbs [73.03 g]              |
| Body Material and Plating | Black Anodized Aluminum Heatsink |

#### Configuration

|               |                      |
|---------------|----------------------|
| Design        | Fixed, Bidirectional |
| Package Style | Connectorized Module |

### Connectors

| Description               | Connector 1             | Connector 2             |
|---------------------------|-------------------------|-------------------------|
| Type                      | 2.92mm Male             | 2.92mm Female           |
| Connector Specification   | MIL-STD-348A            | MIL-STD-348A            |
| Body Material and Plating | Black Anodized Aluminum | Black Anodized Aluminum |

### 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, 2.92mm 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: [6 dB Fixed Attenuator, 2.92mm Male to 2.92mm Female Black Anodized Aluminum Heatsink Body Rated to 10 Watts Up to 40 GHz PE7AP402-6](#)

URL: <https://www.pasternack.com/6db-fixed-2.92mm-male-2.92mm-female-10-watts-attenuator-pe7ap402-6-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.

# PE7AP402-6 CAD Drawing

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

