



30dB RF fixed attenuator 10W, DC to 18GHz, TNC male to female

## RF Fixed Attenuators Technical Data Sheet

**PE7606-30**

### Features

- Bidirectional
- DC to 18 GHz Range
- Attenuation 30 +/- 1.2 dB
- 10 Watts Average Input Power
- VSWR <1.40:1

### 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 30 dB Fixed Attenuators PE7605-30 is rated to 10 Watts and operates from DC to 18 GHz. The versatile coaxial package uses TNC male to TNC female connectors and is also REACH and RoHS compliant.

### Electrical Specifications

| Description                                       | Minimum | Typical | Maximum | Units  |
|---------------------------------------------------|---------|---------|---------|--------|
| Frequency Range                                   | DC      |         | 18      | GHz    |
| Impedance                                         |         | 50      |         | Ohms   |
| Nominal Attenuation                               |         | 30      |         | dB     |
| VSWR                                              |         |         | 1.4:1   |        |
| Input Power, CW                                   |         |         | 10      | Watts  |
| Input Power, Peak<br>5µs pulse w/ 0.4% duty cycle |         |         | 1       | kWatts |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [30dB RF fixed attenuator 10W, DC to 18GHz, TNC male to female PE7606-30](#)



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### Mechanical Specifications

#### Size

|                           |                         |
|---------------------------|-------------------------|
| Length                    | 3.03149 in [77 mm]      |
| Width/Diameter            | 1.49606 in [38 mm]      |
| Height                    | 1.49606 in [38 mm]      |
| Weight                    | 0.155 lbs [70.31 g]     |
| Body Material and Plating | Black Anodized Aluminum |

#### Configuration

|        |                      |
|--------|----------------------|
| Design | Fixed, Bidirectional |
|--------|----------------------|

#### Connectors

| Description                  | Connector 1   | Connector 2            |
|------------------------------|---------------|------------------------|
| Type                         | TNC Male      | TNC Female             |
| Contact Material and Plating | Brass, Gold   | Beryllium Copper, Gold |
| Body Material and Plating    | Brass, Nickel | Brass, Nickel          |

### Environmental Specifications

#### Temperature

|                 |                   |
|-----------------|-------------------|
| Operating Range | +125 to -55 deg C |
|-----------------|-------------------|

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

### Plotted and Other Data

Notes:

30dB RF fixed attenuator 10W, DC to 18GHz, TNC male to female 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.

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URL:

# PE7606-30 CAD Drawing

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