



30 dB Fixed Attenuator, SMA Male to SMA Female Black Anodized Aluminum Heatsink Body Rated to 5 Watts Up to 18 GHz

RF Fixed Attenuators Technical Data Sheet

PE7013-30

Features

- Bidirectional
- DC to 18 GHz Frequency Range
- Attenuation 30±1.5 dB
- Max Power 5 Watts (CW)
- VSWR < 1.35:1

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 30 dB Fixed Attenuator PE7013-30 is rated to 5 Watts and operates from DC to 18 GHz. The versatile coaxial package uses SMA male to SMA 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 | | 18 | GHz |
| Impedance | | 50 | | Ohms |
| Nominal Attenuation | | 30 | | dB |
| Attenuation Accuracy | | ±1.5 | | dB |
| VSWR | | | 1.35:1 | |
| Input Power, CW | | | 5 | Watts |
| derated linearly to 1W at +125°C | | | | |

Mechanical Specifications

Size

| | |
|---------------------------|----------------------------------|
| Length | 1.2 in [30.48 mm] |
| Width/Diameter | 0.61 in [15.49 mm] |
| Weight | 0.02 lbs [9.07 g] |
| Body Material and Plating | Black Anodized Aluminum Heatsink |

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, SMA Male to SMA Female Black Anodized Aluminum Heatsink Body Rated to 5 Watts Up to 18 GHz PE7013-30](#)



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Configuration

Design Fixed, Bidirectional
 Package Style Connectorized Module

Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|----------------------------|----------------------------|
| Type | SMA Male | SMA Female |
| Connector Specification | MIL-STD-348 | MIL-STD-348 |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Coupling Nut Material and Plating | Passivated Stainless Steel | |
| Hex Size | 5/16 in. | |
| Torque | 8 in-lbs 0.9 Nm | |
| Body Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |

Environmental Specifications

Temperature

Operating Range -65 to +125 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant
 REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

30 dB Fixed Attenuator, SMA Male to SMA Female Black Anodized Aluminum Heatsink Body Rated to 5 Watts Up to 18 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

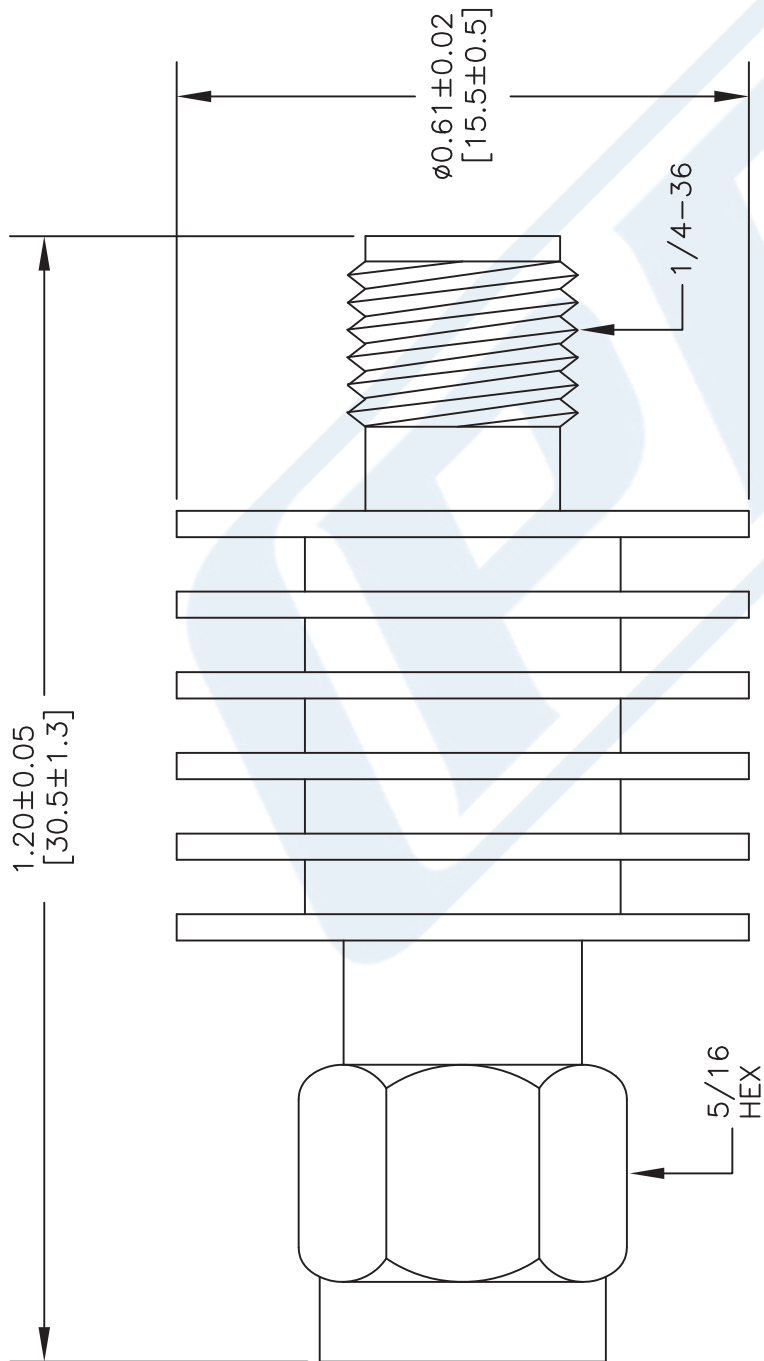
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [30 dB Fixed Attenuator, SMA Male to SMA Female Black Anodized Aluminum Heatsink Body Rated to 5 Watts Up to 18 GHz PE7013-30](http://www.Pasternack.com/30db-fixed-sma-female-sma-male-5-watts-attenuator-pe7013-30-p.aspx)

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PE7013-30 CAD Drawing

30 dB Fixed Attenuator, SMA Male to SMA Female Black Anodized
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| P/N | ATTEN. | FIGURE |
|-----------|--------|--------|
| PE7013-1 | 1 dB | 1 |
| PE7013-2 | 2 dB | 1 |
| PE7013-3 | 3 dB | 1 |
| PE7013-6 | 6 dB | 1 |
| PE7013-10 | 10 dB | 1 |
| PE7013-20 | 20 dB | 1 |
| PE7013-30 | 30 dB | 1 |
| PE7013-40 | 40 dB | 1 |



SMA FEMALE

FIGURE 1

SMA MALE

STANDARD TOLERANCES

- .X ±0.2
- .XX ±0.1
- .XXX ±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

DWG TITLE

PE7013

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

(PE) PASTERNAK®
THE ENGINEER'S RF SOURCE
Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com

FSCM NO. 53919

CAD FILE 022516

SCALE N/A

SIZE A

3045

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