



2dB RF fixed attenuator 2W, DC to 3GHz,
SMA male to female, Stainless Steel

RF Fixed Attenuators Technical Data Sheet

PE7601-2

Features

- Bidirectional
- DC to 3 GHz Range
- Attenuation 2 +/- 0.5 dB
- 2 Watts Average Input Power
- VSWR <1.15:1

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 2 dB Fixed Attenuators PE7601-2 is rated to 2 Watts and operates from DC to 3 GHz. The versatile coaxial package uses SMA male to SMA female connectors and is also REACH and RoHS compliant.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---------|---------|---------|-------|
| Frequency Range | DC | | 3 | GHz |
| Impedance | | 50 | | Ohms |
| Nominal Attenuation | | 2 | | dB |
| VSWR | | | 1.15:1 | |
| Input Power, CW | | | 2 | Watts |
| Input Power, Peak 5µs pulse w/ 0.4% duty cycle | | | 500 | Watts |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2dB RF fixed attenuator 2W, DC to 3GHz, SMA male to female, Stainless Steel PE7601-2](#)



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Mechanical Specifications

Size

| | |
|---------------------------|-----------------------|
| Length | 0.858266 in [21.8 mm] |
| Width/Diameter | 0.31496 in [8 mm] |
| Height | 0.31496 in [8 mm] |
| Weight | 0.01 lbs [4.54 g] |
| Body Material and Plating | Stainless Steel |

Configuration

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

Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------|-----------------|------------------------|
| Type | SMA Male | SMA Female |
| Contact Material and Plating | Brass, Gold | Beryllium Copper, Gold |
| Body Material and Plating | Stainless Steel | Stainless Steel |

Environmental Specifications

Temperature

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

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

Plotted and Other Data

Notes:

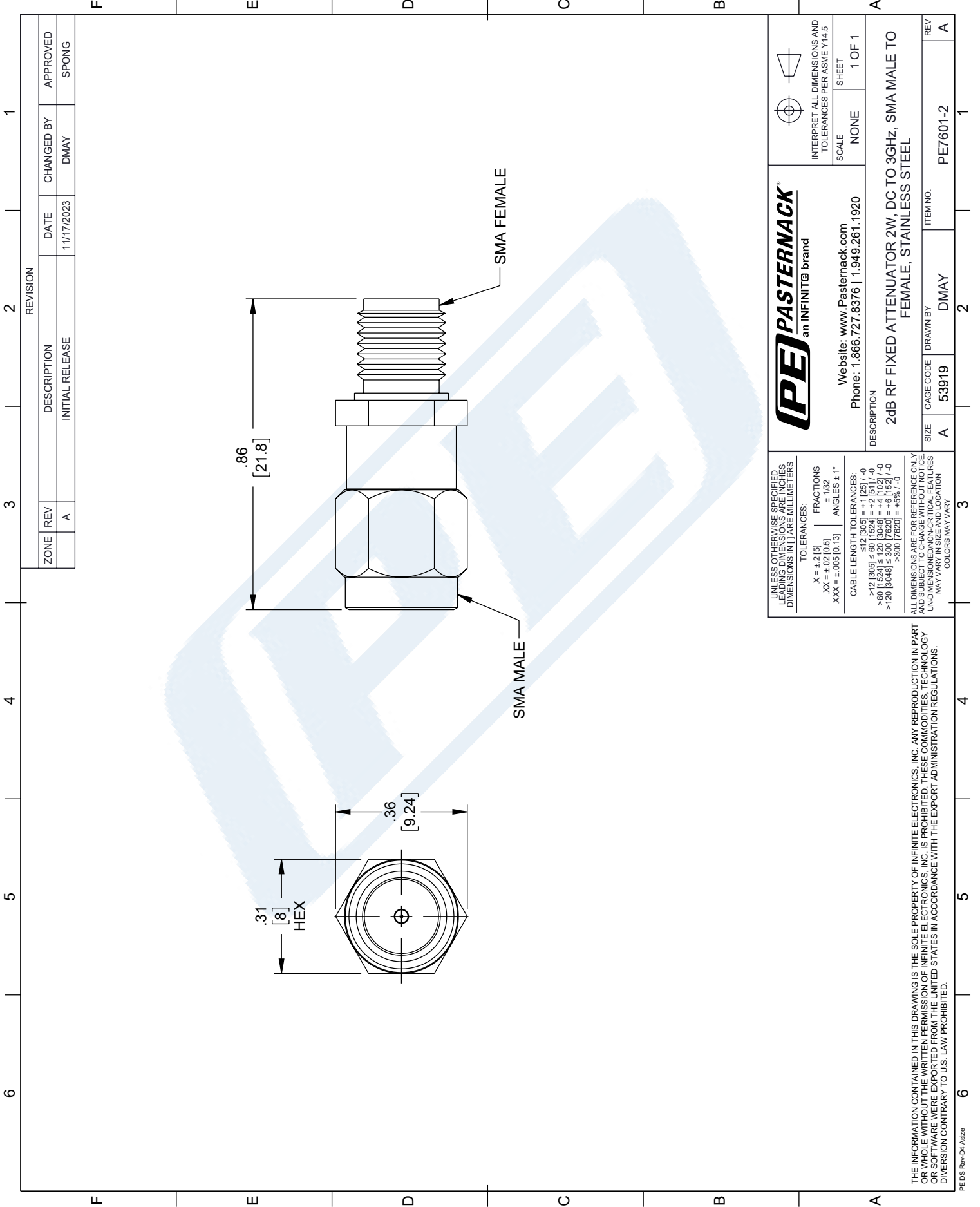
2dB RF fixed attenuator 2W, DC to 3GHz, SMA male to female, Stainless Steel from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2dB RF fixed attenuator 2W, DC to 3GHz, SMA male to female, Stainless Steel PE7601-2](#)

URL:

PE7601-2 CAD Drawing

2dB RF fixed attenuator 2W, DC to 3GHz, SMA male to female, Stainless Steel



| ZONE | | REVISION | | DATE | | CHANGED BY | | APPROVED | |
|------|-----|-----------------|------------|------------|----------|------------|--|----------|--|
| | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED | | | | |
| | A | INITIAL RELEASE | 11/17/2023 | DMAY | SPONG | | | | |

| | | |
|---|---|--|
| PASTERNAK an INFINIT [®] brand | Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920 | INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1 |
| | DESCRIPTION: 2dB RF FIXED ATTENUATOR 2W, DC TO 3GHz, SMA MALE TO FEMALE, STAINLESS STEEL | CAGE CODE: DMAY ITEM NO.: PE7601-2 |

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES, DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:

| | |
|--------------------|------------------|
| X = ±.2 [5] | FRACTIONS ± 1/32 |
| XX = ±.02 [0.5] | ANGLES ± 1° |
| XXX = ±.005 [0.13] | |

CABLE LENGTH TOLERANCES:

| | |
|---------------------------|-------------|
| ≤ 12 [305] | ± .01 [25] |
| > 12 [305] ≤ 60 [1524] | ± .02 [51] |
| > 60 [1524] ≤ 120 [3048] | ± .04 [102] |
| > 120 [3048] ≤ 300 [7620] | ± .06 [152] |
| > 300 [7620] | ± .08 [203] |

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNLESS OTHERWISE SPECIFIED. FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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