

## 5 dB Fixed Attenuator, N Male to N Female Passivated Stainless Steel Body Rated to 2 Watts Up to 18 GHz



### PE7094-05

#### Features

- DC to 18 GHz Frequency Range
- Attenuation 5±0.3 dB
- N Type Male/Female Connectors
- Max Power 2 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 5 dB Fixed Attenuator PE7094-05 is rated to 2 Watts and operates from DC to 18 GHz. The versatile coaxial package uses type N male to type N female connectors and is also REACH compliant.

#### Electrical Specifications

| Description                 | Minimum | Typical | Maximum | Units |
|-----------------------------|---------|---------|---------|-------|
| Frequency Range             | DC      |         | 18      | GHz   |
| Impedance                   |         | 50      |         | Ohms  |
| Nominal Attenuation         |         | 5       |         | dB    |
| Attenuation Accuracy        |         | 0.3     |         | dB    |
| VSWR                        |         |         | 1.35:1  |       |
| Input Power, CW             |         |         | 2       | Watts |
| Input Power, Peak           |         |         | 500     | Watts |
| 5μs pulse, 0.05% duty cycle |         |         |         |       |

#### Mechanical Specifications

##### Size

|                           |                            |
|---------------------------|----------------------------|
| Length                    | 1.76 in [44.7 mm]          |
| Width/Diameter            | 0.82 in [20.83 mm]         |
| Height                    | 0.82 in [20.83 mm]         |
| Weight                    | 0.05 lbs [22.68 g]         |
| Body Material and Plating | Passivated Stainless Steel |

##### Configuration

|        |       |
|--------|-------|
| Design | Fixed |
|--------|-------|

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**PE7094-05**

**Connectors**

| Description                          | Connector 1                | Connector 2                |
|--------------------------------------|----------------------------|----------------------------|
| Type                                 | N Male                     | N Female                   |
| Connector Specification              | MIL-STD-348                | MIL-STD-348                |
| Contact Material and Plating         | Beryllium Copper, Gold     | Beryllium Copper, Gold     |
| Outer Conductor Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |
| Coupling Nut Material and Plating    | Passivated Stainless Steel |                            |
| Body Material and Plating            | Passivated Stainless Steel | Passivated Stainless Steel |

**Environmental Specifications**

**Temperature**

Operating Range -65 to +125 deg C

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**

5 dB Fixed Attenuator, N Male to N Female Passivated Stainless Steel Body Rated to 2 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 99.4% 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: [5 dB Fixed Attenuator, N Male to N Female Passivated Stainless Steel Body Rated to 2 Watts Up to 18 GHz PE7094-05](#)

URL: <https://www.pasternack.com/5db-fixed-n-male-n-female-2-watts-attenuator-pe7094-05-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.

# PE7094-05 CAD Drawing

5 dB Fixed Attenuator, N Male to N Female Passivated Stainless Steel Body Rated to 2 Watts Up to 18 GHz

| REVISIONS |                 |                    |
|-----------|-----------------|--------------------|
| REV.      | DESCRIPTION     | DATE               |
| A         | INITIAL RELEASE | 03/23/2022         |
|           |                 | APPROVED<br>S.PONG |

  

N FEMALE

N MALE

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

**TOLERANCES:**

X = ±.2 [5.08]      FRACTIONS ± 1/32

.XX = ±.02 [ .51 ]      ANGLES ± 1°

.XXX = ±.005 [ .13 ]

**CABLE LENGTH (L) TOLERANCES:**

L ≤ 12 [305] = ±1.0 [25] / -0

12 [305] < L ≤ 60 [1524] = ±2.6 [67] / -0

60 [1524] < L ≤ 120 [3048] = ±4.1 [107] / -0

120 [3048] < L ≤ 300 [7620] = ±6.1 [157] / -0

300 [7620] < L = ±5% L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

  

**PE PASTERNAK**  
an INFINIT® brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

  

|      |           |           |           |     |
|------|-----------|-----------|-----------|-----|
| SIZE | CAGE CODE | DRAWN BY  | ITEM NO.  | REV |
| A    | 53919     | K.GLEBOVA | PE7094-05 | A   |

  

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