

## 40 dB Fixed Attenuator, N Male to N Female Black Anodized Aluminum Heatsink Body Rated to 50 Watts Up to 4 GHz



### PE7394-40

#### Features

- Bidirectional
- DC to 4 GHz Frequency Range
- Attenuation 40±0.75 dB
- Max Power 50 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 40 dB Fixed Attenuator PE7394-40 is rated to 50 Watts and operates from DC to 4 GHz. The versatile coaxial package uses type N male to type N 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      |         | 4       | GHz    |
| Impedance                                      |         | 50      |         | Ohms   |
| Nominal Attenuation                            |         | 40      |         | dB     |
| Attenuation Accuracy                           |         | 0.75    |         | dB     |
| VSWR   |         |         | 1.35:1  |        |
| Passive Intermodulation                        |         |         | -100    | dBc    |
| Input Power, CW                                |         |         | 50      | Watts  |
| derated linearly from 50W @ 25°C to 5W @ 125°C |         |         |         |        |
| Input Power, Peak                              |         |         | 10      | kWatts |
| 5µs pulse, .5% duty cycle                      |         |         |         |        |

#### Specifications by Frequency

| Description               | F1      | F2 | F3 | F4 | F5 | Units |
|---------------------------|---------|----|----|----|----|-------|
| Frequency Range           | DC to 4 |    |    |    |    | GHz   |
| VSWR, Max                 | 1.35:1  |    |    |    |    |       |
| Attenuation Accuracy, Typ | 0.75    |    |    |    |    | dB    |

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#### Electrical Specification Notes:

Passive intermodulation specified at 910MHz with two input signals at 935MHz and 960MHz with average carrier power levels of +43dBm each.

#### Mechanical Specifications

##### Size

|                           |                                  |
|---------------------------|----------------------------------|
| Length                    | 5.12 in [130.05 mm]              |
| Width/Diameter            | 2.36 in [59.94 mm]               |
| Height                    | 2.36 in [59.94 mm]               |
| Weight                    | 1.455 lbs [659.98 g]             |
| Body Material and Plating | Black Anodized Aluminum Heatsink |

##### Configuration

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

#### Connectors

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

#### Environmental Specifications

##### Temperature

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

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

#### Plotted and Other Data

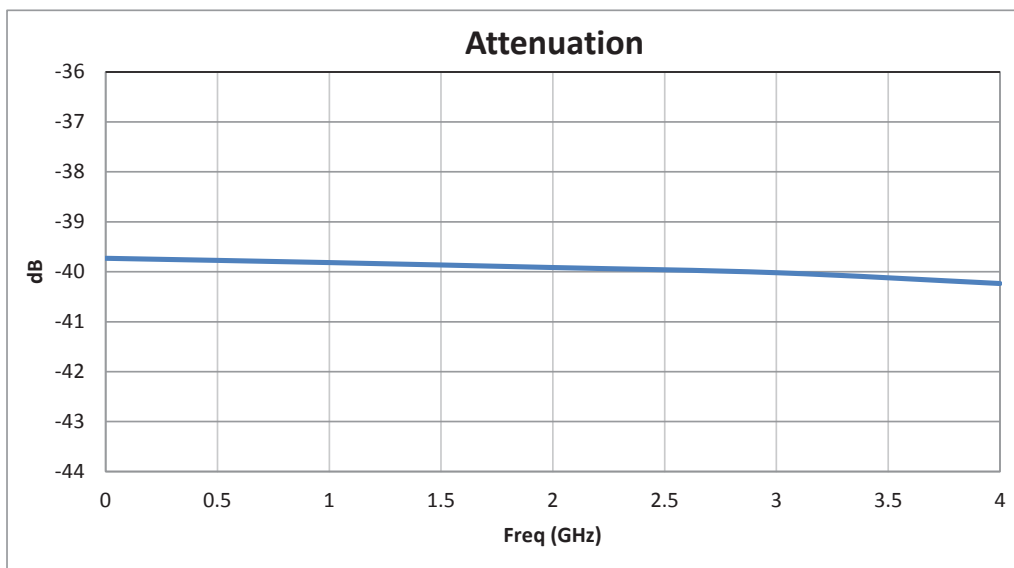
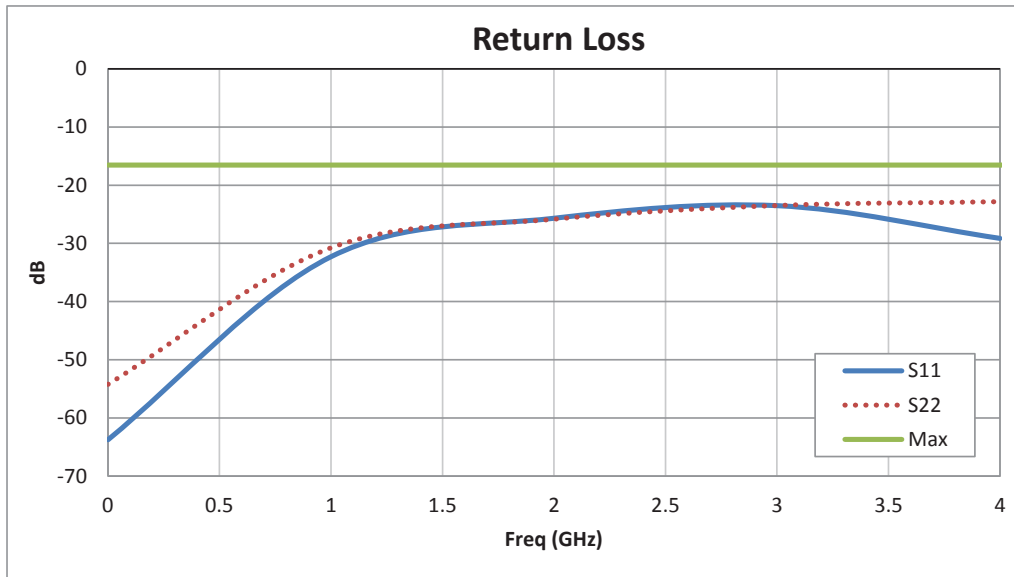
Notes:

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**PE7394-40**

Typical Performance Data



## 40 dB Fixed Attenuator, N Male to N Female Black Anodized Aluminum Heatsink Body Rated to 50 Watts Up to 4 GHz



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40 dB Fixed Attenuator, N Male to N Female Black Anodized Aluminum Heatsink Body Rated to 50 Watts Up to 4 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: [40 dB Fixed Attenuator, N Male to N Female Black Anodized Aluminum Heatsink Body Rated to 50 Watts Up to 4 GHz PE7394-40](#)

URL: <https://www.pasternack.com/40db-fixed-n-male-n-female-50-watts-attenuator-pe7394-40-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 impliment 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.

# PE7394-40 CAD Drawing

40 dB Fixed Attenuator, N Male to N Female Black Anodized Aluminum Heatsink Body Rated to 50 Watts Up to 4 GHz

| REVISIONS |                       |                   |
|-----------|-----------------------|-------------------|
| REV.      | DESCRIPTION           | DATE              |
| B         | PCR PE7394-2 20220715 | 08/08/2022        |
|           |                       | APPROVED<br>SPONG |

| ITEM NO.  | ATTEN. |
|-----------|--------|
| PE7394-2  | 2 dB   |
| PE7394-3  | 3 dB   |
| PE7394-6  | 6 dB   |
| PE7394-10 | 10 dB  |
| PE7394-30 | 30 dB  |
| PE7394-40 | 40 dB  |

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

**TOLERANCES:**

.X = ±.2 [5.08]    FRACTIONS ±.132  
 .XX = ±.02 [5.1]    ANGLES ± 1°  
 .XXX = ±.005 [13]    CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0  
 12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
 300 [7620] < L = +9%L / -0

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

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ITEM NO. PE7394

SIZE A    CAGE CODE 53919    DRAWN BY DZINN

REV B

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