



10 dB Fixed Attenuator, N Male to N Female
Directional Black Anodized Aluminum Heatsink
Body Rated to 100 Watts Up to 18 GHz

RF Fixed Attenuators Technical Data Sheet

PE7424-10

Features

- Directional
- DC to 18 GHz Frequency Range
- Attenuation 10dB Typical
- Max Power 100 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 10 dB Fixed Attenuator PE7424-10 is rated to 100 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 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 | | 10 | | dB |
| Attenuation Accuracy | | 0.75 | | dB |
| VSWR | | | 1.35:1 | |
| Input Power, CW rated at +25°C, derated linearly to 10W at +125°C | | | 100 | Watts |
| Input Power, Peak 5µs pulse, 2.5% duty cycle | | | 1 | kWatts |

Electrical Specification Notes:
Values at +25°C, sea level.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10 dB Fixed Attenuator, N Male to N Female Directional Black Anodized Aluminum Heatsink Body Rated to 100 Watts Up to 18 GHz PE7424-10](#)



10 dB Fixed Attenuator, N Male to N Female
Directional Black Anodized Aluminum Heatsink
Body Rated to 100 Watts Up to 18 GHz

RF Fixed Attenuators Technical Data Sheet

PE7424-10

Mechanical Specifications

Size

| | |
|---------------------------|----------------------------------|
| Length | 5.61 in [142.49 mm] |
| Width/Diameter | 2.5 in [63.5 mm] |
| Weight | 0.9755 lbs [442.48 g] |
| Body Material and Plating | Black Anodized Aluminum Heatsink |

Configuration

| | |
|---------------|----------------------|
| Design | Fixed, Directional |
| Package Style | Connectorized Module |

Connectors

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

Environmental Specifications

Temperature

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

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

Plotted and Other Data

Notes:

10 dB Fixed Attenuator, N Male to N Female Directional Black Anodized Aluminum Heatsink Body Rated to 100 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.

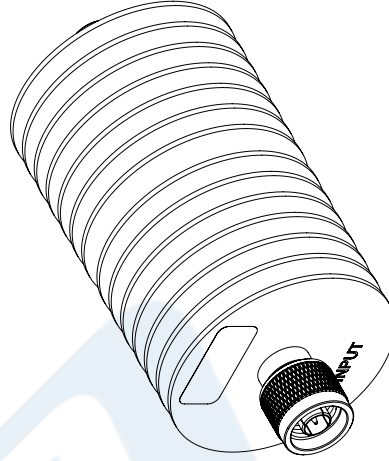
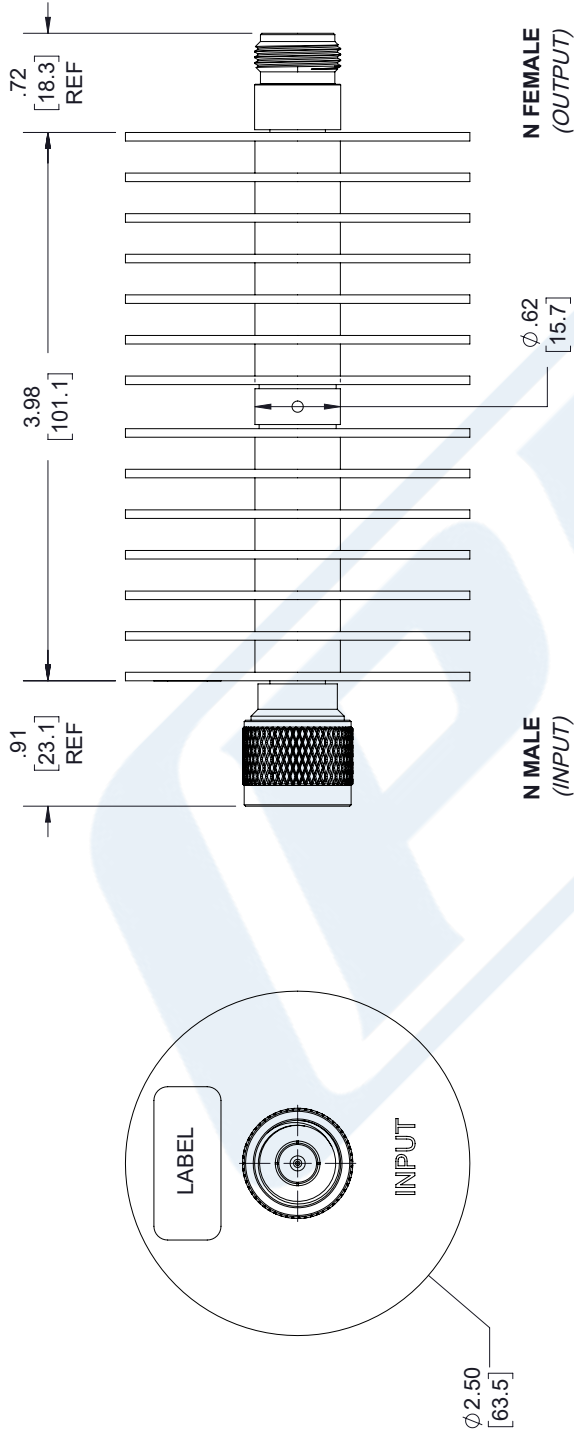
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10 dB Fixed Attenuator, N Male to N Female Directional Black Anodized Aluminum Heatsink Body Rated to 100 Watts Up to 18 GHz PE7424-10](#)

URL: <https://www.pasternack.com/10db-fixed-n-male-n-female-100-watts-attenuator-pe7424-10-p.aspx>

PE7424-10 CAD Drawing

10 dB Fixed Attenuator, N Male to N Female Directional Black Anodized Aluminum Heatsink Body Rated to 100 Watts Up to 18 GHz

| REVISIONS | | | |
|-----------|-----------------|----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 09/26/19 | S.PONG |



| | | | |
|---|--------|-------------|-------|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS | | | |
| TOLERANCES: | | | |
| X±.2 | [5.08] | FRACTIONS | |
| .XX±.01 | [.25] | | ±.132 |
| .XXX±.005 | [.13] | ANGLES ± 1° | |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | | | |
| THIRD-ANGLE PROJECTION | | | |

| | | | |
|---|--------------|-----------------|-----------------------|
| PE PASTERNAK an INFINITE brand Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 www.pasternack.com e-mail: sales@pasternack.com | | | |
| THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED. | SHEET 1 OF 1 | SCALE N/A | REV A |
| SIZE A | CAGE 53919 | DRAWN BY K.DANG | PART NUMBER PE7424-10 |

LABEL

PASTERNAK
PE7424-10
D/C: YYWW

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.