



20 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

PE7424-20

### Features

- Directional
- DC to 18 GHz Frequency Range
- Attenuation 20dB 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 20 dB Fixed Attenuator PE7424-20 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		20		dB
Attenuation Accuracy		1		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: [20 dB Fixed Attenuator, N Male to N Female Directional Black Anodized Aluminum Heatsink Body Rated to 100 Watts Up to 18 GHz PE7424-20](#)



20 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

PE7424-20

### Mechanical Specifications

#### Size

Length	5.61 in [142.49 mm]
Width/Diameter	2.5 in [63.5 mm]
Weight	0.9825 lbs [445.65 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:

20 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.

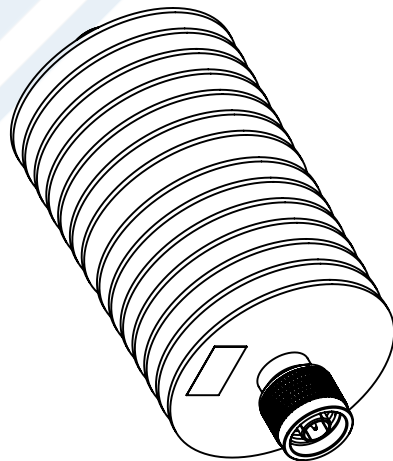
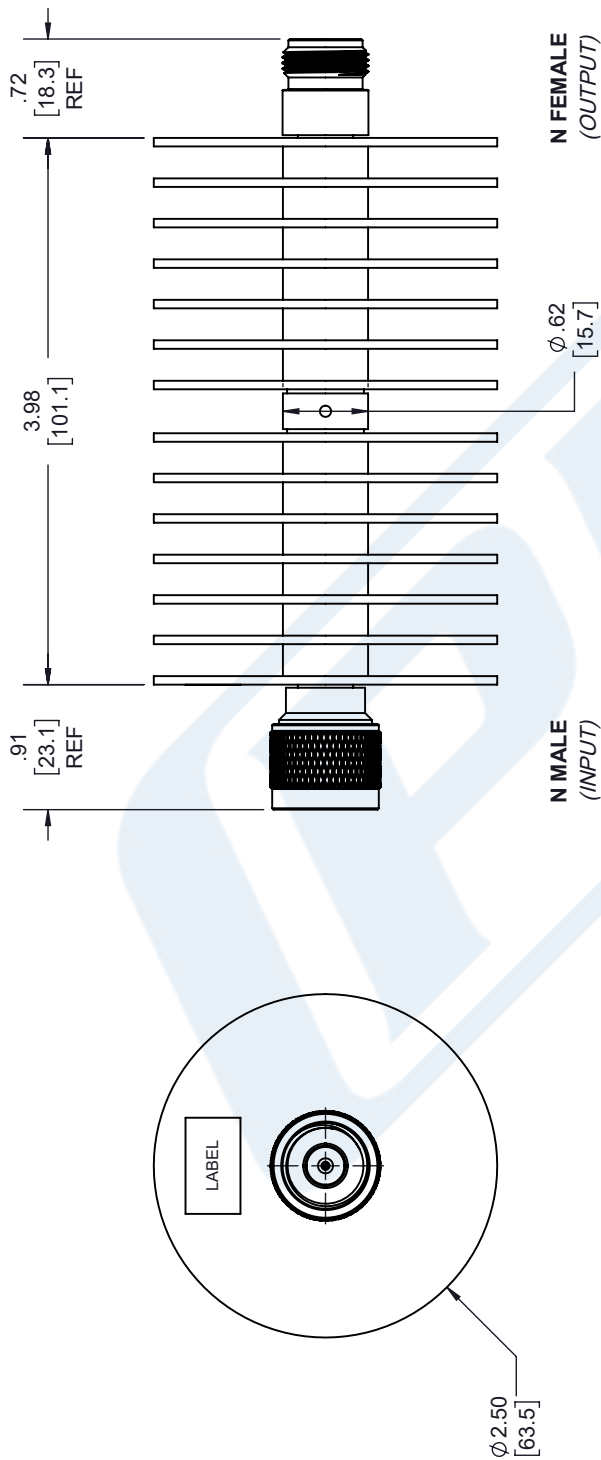
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [20 dB Fixed Attenuator, N Male to N Female Directional Black Anodized Aluminum Heatsink Body Rated to 100 Watts Up to 18 GHz PE7424-20](#)

URL: <https://www.pasternack.com/20db-fixed-n-male-n-female-100-watts-attenuator-pe7424-20-p.aspx>

# PE7424-20 CAD Drawing

20 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	PCR PE7424-XX	10/29/2020	S.PONG



**NOTES:**

- LABEL:  

PASTERNAK  
 PE7424-20  
 D/C: YYWW
- LABEL LOCATION FOR REFERENCE ONLY.

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 [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 = +5% / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.



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



Pasternack Enterprises, Inc.  
 P.O. Box 16759, Irvine, CA 92623.  
 Phone: 1.949.261.1920 | 1.866.727.8376  
 Fax: 1.949.261.7451  
 Website: www.pasternack.com  
 E-mail: sales@pasternack.com

ITEM NO. PE7424-20

SIZE A CAGE CODE 53919 DRAWN BY K.DANG