



RF Fixed Attenuators Technical Data Sheet

PE7480-40

Features

- 0.6 to 6 GHz Frequency Range
- N-type Connectorized Design
- · Attenuation 40 dB ±2 dB

- Max Power 50 Watt (CW)
- Typical VSWR of 1.3:1
- PIM rating -168 dBc typical

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 PE7480-40 is rated to 50 Watts and operates from 0.6 to 6 GHz. The fixed attenuator offers 1.3:1 VSWR and low PIM (passive intermodulation) rating of -168 dBc typical. The versatile coaxial package uses N-Type female to N-Type female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.6		6	GHz
Impedance		50		Ohms
Nominal Attenuation		40		dB
Attenuation Accuracy		2		dB
VSWR		1.3:1		
Passive Intermodulation		-168	-160	dBc
2x43dBm				
Input Power, CW			50	Watts
Input Power, Peak			500	Watts
8% duty cycle, 20us PW				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Low PIM 40dB Fixed Attenuator N-type female to N-type female Black Anodized Aluminum Body to 50 Watts 0.6 GHz to 6 GHz PE7480-40

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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Mechanical Specifications

Size

 Length
 6.69 in [169.93 mm]

 Width/Diameter
 5.12 in [130.05 mm]

 Height
 1.46 in [37.08 mm]

Weight 2.65 lbs [1.2 kg]
Body Material and Plating Black Anodized

Black Anodized Aluminum Heatsink

Configuration

Design Fixed, Directional Low PIM Package Style Connectorized

Connectors

Description	Connector 1	Connector 2	
Туре	N Female	N Female	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	

Environmental Specifications

Temperature

Operating Range -40 to +75 deg C Storage Range -50 to +85 deg C

Humidity <95%

 Shock
 IEC 60068-2-27

 Vibration
 IEC 60068-2-6-Fc

Altitude <5000m

Thermal Shock IEC 60068 -2-14-Na

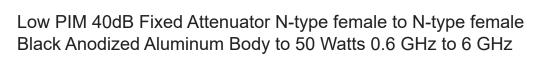
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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Low PIM 40dB Fixed Attenuator N-type female to N-type female Black Anodized Aluminum Body to 50 Watts 0.6 GHz to 6 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.

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URL: https://www.pasternack.com/40db-fixed-n-female-n-female-50-watts-attenuator-pe7480-40-p.aspx

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PE7480-40 CAD Drawing

Low PIM 40dB Fixed Attenuator N-type female to N-type female Black Anodized Aluminum Body to 50 Watts 0.6 GHz to 6 GHz ₩ A INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 **APPROVED** 40dB RF FIXED ATTENUATOR N-TYPE FEMALE TO FEMALE 600MHz TO 6GHz, 50W AND LOW PIM SPONG 1 OF SHEET PE7480-40 NONE \bigoplus CHANGED BY SREITER SCALE 2X N-TYPE FEMALE PASTERNACK 50.0 Website: www.Pasternack.com Phone: 1.866.727.8376 | 1.949.261.1920 03/10/2023 DATE CONNECTOR an INFINIT® brand .79 [20.0] TYP. SREITER REVISION 1.38 [35.0] TYP. .33 [8.5] INITIAL RELEASE DESCRIPTION 53919 \oplus \oplus .79 [20.1] ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. >60 [1524] < 120 [3048] = +4 [102] / -0 >120 [3048] < 300 [7620] = +6 [152] / -0 >300 [7620] = +5% / -0 ± 1/32 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS <12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0 FRACTIONS CABLE LENGTH TOLERANCES: က TOLERANCES: REV ⋖ $X = \pm .2$ [5] ... $XX = \pm .02$ [.5] ... $XX = \pm .02$ [.5] ... $XXX = \pm .005$ [.13] ZONE [170.0] THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR VEWLOLE THE WRITTEN PERENSISION OF INFINITE ELECTRONICS, INC. IS PROHIBITED.

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