Low PIM 30dB Fixed Attenuator N-type female to N-type female Black Anodized Aluminum Body to 100 Watts 0.6 GHz to 6 GHz

PE7482-30

Features

- 0.6 to 6 GHz Frequency Range
- N-type Connectorized Design
- Attenuation 30 dB ±2 dB
- Max Power 100 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 30 dB Fixed Attenuator PE7482-30 is rated to 100 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		30		dB
Attenuation Accuracy		2		dB
VSWR		1.3:1		
Passive Intermodulation		-168	-160	dBc
2x43dBm				
Input Power, CW			100	Watts
Input Power, Peak			1	kWatts
8% duty cycle, 20us PW				

Mechanical Specifications

Size

Length	6.69 in [169.93 mm]
Width/Diameter	5.12 in [130.05 mm]
Height	2.8 in [71.12 mm]
Weight	1.88 lbs [852.75 g]
Body Material and Plating	Black Anodized Aluminum Heatsink

Configuration

Design	Fixed, Directional

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Design Type	Low PIM
Package Style	Connectorized

Connectors

Description	Connector 1	Connector 2
Type	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:

Typical Performance Data

Low PIM 30dB Fixed Attenuator N-type female to N-type female Black Anodized Aluminum Body to 100 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Low PIM 30dB Fixed Attenuator N-type female to N-type female Black Anodized Aluminum Body to 100 Watts 0.6 GHz to 6 GHz PE7482-30

URL: https://www.pasternack.com/30db-fixed-n-female-n-female-100-watts-attenuator-pe7482-30-p.aspx

PE7482-30 CAD Drawing

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