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

PE7424-30

Features

- Directional
- DC to 18 GHz Frequency Range
- Attenuation 30dB 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 30 dB Fixed Attenuator PE7424-30 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		30		dB
Attenuation Accuracy		1.2		dB
VSWR			1.35:1	
Input Power, CW			100	Watts
rated at +25°C, derated linearly to 10W at +125°C				
Input Power, Peak			1	kWatts
5µs pulse, 2.5% duty cycle				

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

Mechanical Specifications

Size

Length	5.61 in [142.49 mm]
Width/Diameter	2.5 in [63.5 mm]
Height	0 in [0 mm]
Weight	0.972 lbs [440.89 g]
Body Material and Plating	Black Anodized Aluminum Heatsink

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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:

Typical Performance Data

30 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: 30 dB Fixed Attenuator, N Male to N Female Directional Black Anodized Aluminum Heatsink Body Rated to 100 Watts Up to 18 GHz PE7424-30

URL: https://www.pasternack.com/30db-fixed-n-male-n-female-100-watts-attenuator-pe7424-30-p.aspx

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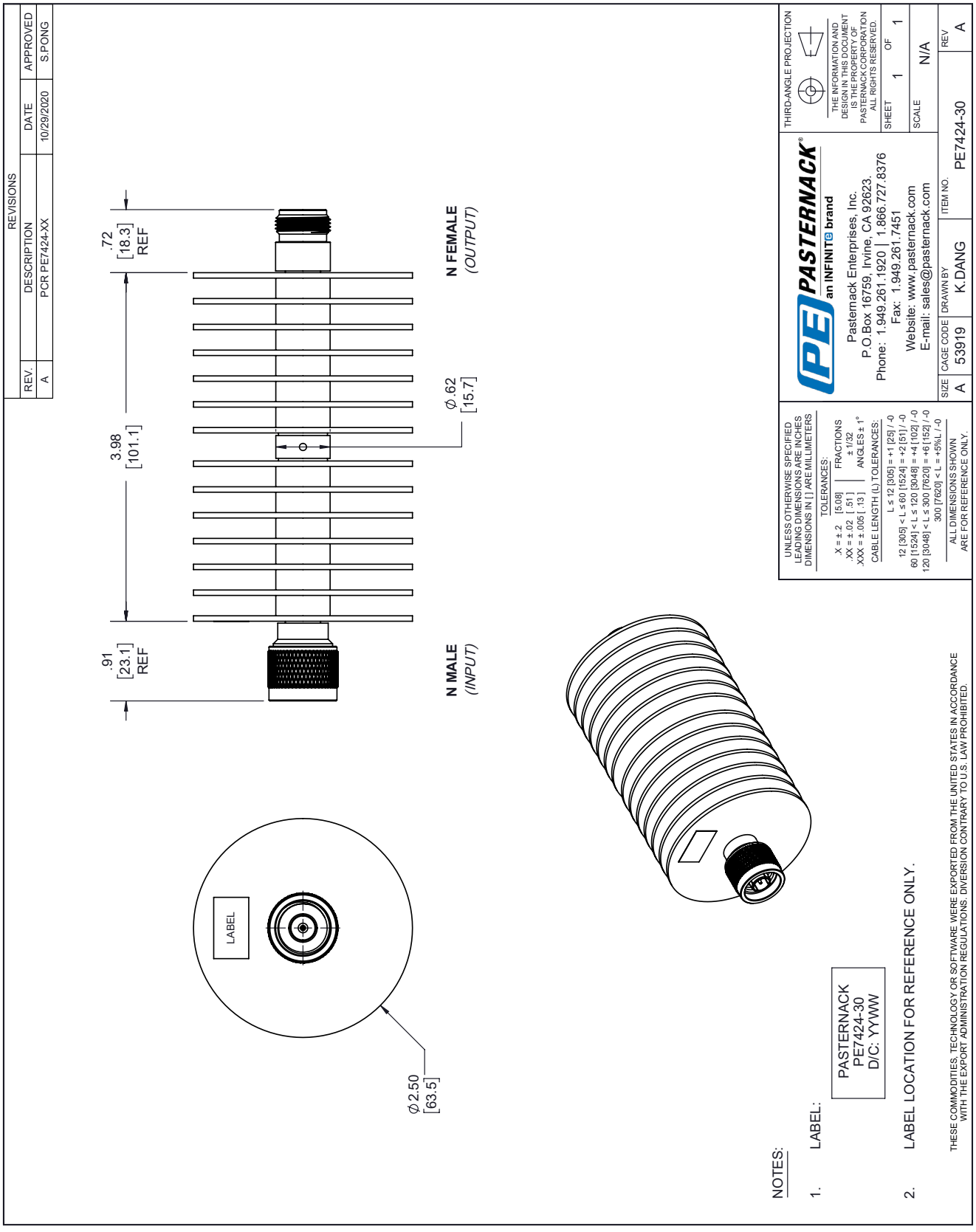
PE7424-30 CAD Drawing

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



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