



30 dB Fixed Attenuator, 7/16 DIN Male to
 7/16 DIN Female Directional Black Anodized Aluminum
 Heatsink Body Rated to 50 Watts Up to 7.5 GHz

RF Fixed Attenuators Technical Data Sheet

PE7042-30

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 PE7042-30 is rated to 50 Watts and operates from DC to 7.5 GHz. The versatile coaxial package uses 7/16 DIN male to 7/16 DIN 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		7.5	GHz
Impedance		50		Ohms
Nominal Attenuation		30		dB
VSWR			1.45:1	
Input Power, CW			50	Watts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 7.5					GHz
Attenuation Accuracy, Typ	±1.5					dB

Mechanical Specifications

Size

Length	5.55 in [140.97 mm]
Width/Diameter	3.5 in [88.9 mm]
Height	2.65 in [67.31 mm]
Weight	1.629 lbs [738.9 g]
Body Material and Plating	Black Anodized Aluminum Heatsink

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, 7/16 DIN Male to 7/16 DIN Female Directional Black Anodized Aluminum Heatsink Body Rated to 50 Watts Up to 7.5 GHz PE7042-30](#)



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Configuration

Design Fixed, Directional
Package Style Connectorized

Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Male	7/16 DIN Female
Hex Size	1 1/4 in.	
Torque	18.417 ft-lbs 24.97 Nm	

Environmental Specifications

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

Plotted and Other Data

Notes:

30 dB Fixed Attenuator, 7/16 DIN Male to 7/16 DIN Female Directional Black Anodized Aluminum Heatsink Body Rated to 50 Watts Up to 7.5 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: <https://www.pasternack.com/30db-fixed-7-16-male-7-16-female-50-watts-attenuator-pe7042-30-p.aspx>

PE7042-30 CAD Drawing

30 dB Fixed Attenuator, 7/16 DIN Male to 7/16 DIN Female Directional Black Anodized Aluminum Heatsink Body Rated to 50 Watts Up to 7.5 GHz

P/N	ATTEN.	FIGURE
PE7042-6	6 dB	1
PE7042-10	10 dB	1
PE7042-20	20 dB	1
PE7042-30	30 dB	1
PE7042-40	40 dB	1

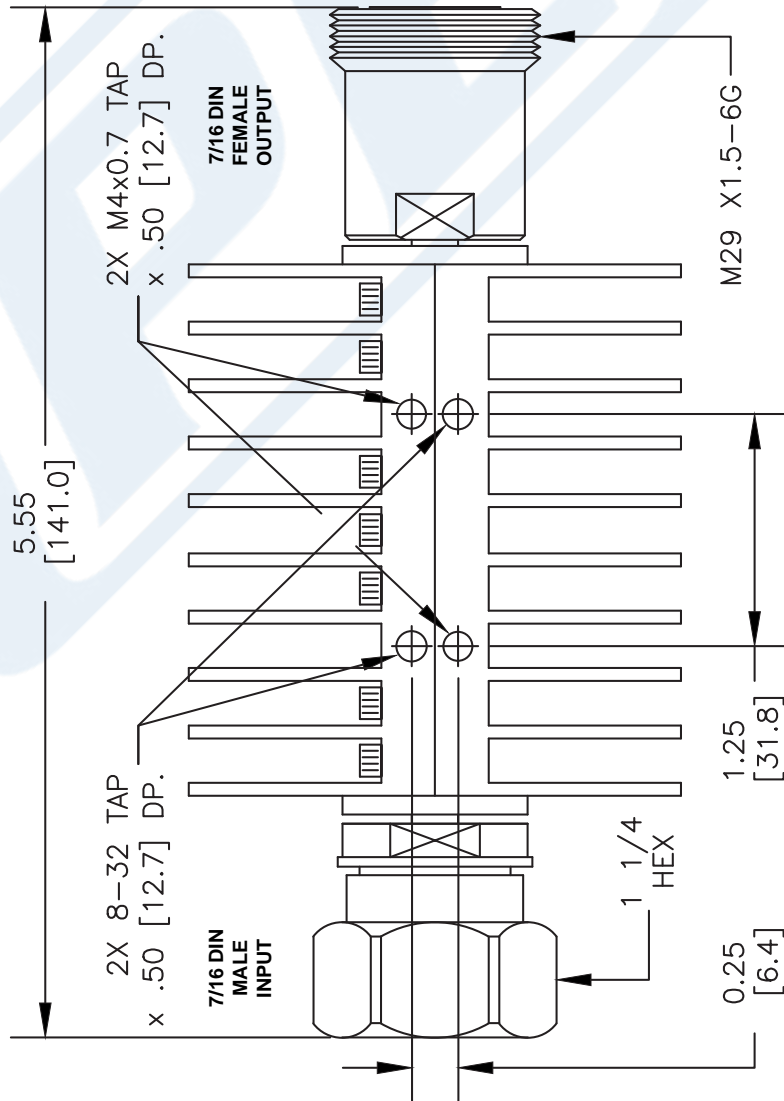
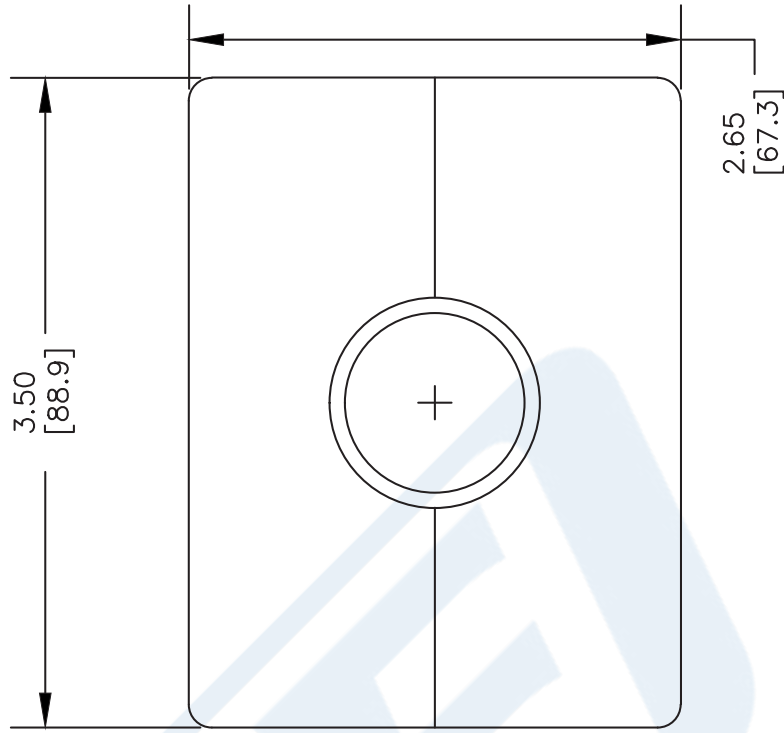


FIGURE 1

DWG TITLE

PE7042

NOTES:
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
 3. DIMENSIONS ARE IN INCHES [mm].

FSCM NO. 53919

CAD FILE 020113

SCALE N/A

SIZE A

2231



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