

1 dB Fixed Attenuator, 7/16 DIN Male to 7/16 DIN Female Black Anodized Aluminum Heatsink Body Rated to 25 Watts Up to 7.5 GHz

PE7041-1



Features

- Bidirectional
- DC to 7.5 GHz Frequency Range
- Attenuation 1 ± 0.4 dB
- Max Power 25 Watts (CW)
- VSWR < 1.45:1

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 1 dB Fixed Attenuator PE7041-1 is rated to 25 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		1		dB
Attenuation Accuracy		0.4		dB
VSWR			1.45:1	
Input Power, CW			25	Watts
derated linearly from 25W @ 25°C to 5W @ 125°C				
Input Power, Peak			500	Watts
5μs pulse, 0.05% duty cycle				

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 4	4 to 7.5				GHz
VSWR, Max	1.25:1	1.45:1				

Mechanical Specifications

Size

Length	5.55 in [140.97 mm]
Width/Diameter	2.65 in [67.31 mm]

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Body Rated to 25 Watts Up to 7.5 GHz



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Height	2.65 in [67.31 mm]
Weight	1.489 lbs [675.4 g]
Body Material and Plating	Black Anodized Aluminum Heatsink
Configuration	
Design	Fixed, Bidirectional
Package Style	Connectorized Module

Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Male	7/16 DIN Female
Contact Material and Plating	Beryllium Copper	Beryllium Copper
Hex Size	1 1/4 in.	
Torque	18.417 ft-lbs 24.97 Nm	
Body Material and Plating	Brass	Brass

Environmental Specifications

Temperature	
Operating Range	-65 to +125 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data

1 dB Fixed Attenuator, 7/16 DIN Male to 7/16 DIN Female Black Anodized Aluminum Heatsink Body Rated to 25 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 99.4% 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: [1 dB Fixed Attenuator, 7/16 DIN Male to 7/16 DIN Female Black Anodized Aluminum Heatsink Body Rated to 25 Watts Up to 7.5 GHz PE7041-1](#)

URL: <https://www.pasternack.com/1db-fixed-7-16-male-7-16-female-25-watts-attenuator-pe7041-1-p.aspx>

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