

1 dB Fixed Attenuator, 7/16 DIN Male to
7/16 DIN Female Black Anodized Aluminum Heatsink
Body Rated to 10 Watts Up to 7.5 GHz



PE7040-1

Features

- Bidirectional
- DC to 7.5 GHz Frequency Range
- Attenuation 1±0.6 dB
- Max Power 10 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 PE7040-1 is rated to 10 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		0.6		dB
VSWR			1.45:1	
Input Power, CW			10	Watts
derated linearly from 10W @ 25°C to 2W @ 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 3.48 in [88.39 mm]
- Width/Diameter 1.25 in [31.75 mm]

1 dB Fixed Attenuator, 7/16 DIN Male to
7/16 DIN Female Black Anodized Aluminum Heatsink
Body Rated to 10 Watts Up to 7.5 GHz



PE7040-1

Height	0 in [0 mm]
Weight	0.563 lbs [255.37 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 10 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.

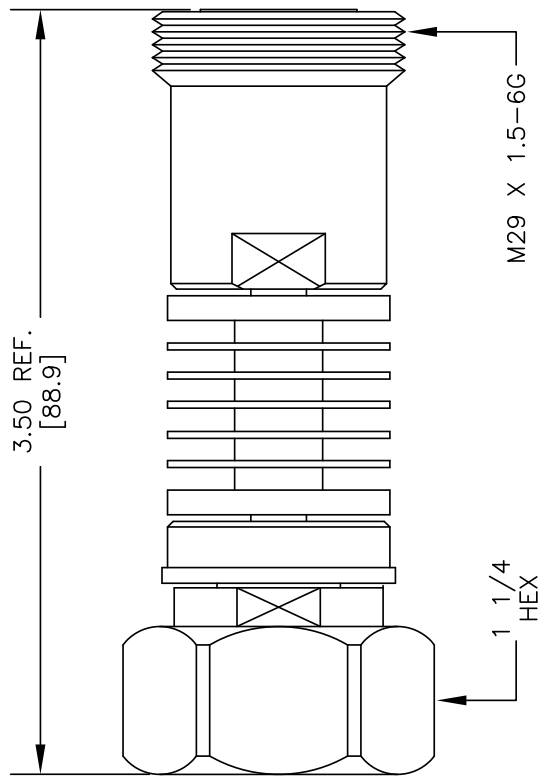
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1 dB Fixed Attenuator, 7/16 DIN Male to 7/16 DIN Female Black Anodized Aluminum Heatsink Body Rated to 10 Watts Up to 7.5 GHz PE7040-1](#)

URL: <https://www.pasternack.com/1db-fixed-7-16-male-7-16-female-10-watts-attenuator-pe7040-1-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE7040-1 CAD Drawing

1 dB Fixed Attenuator, 7/16 DIN Male to 7/16 DIN Female Black Anodized Aluminum Heatsink Body Rated to 10 Watts Up to 7.5 GHz



DWG TITLE

PE7040-1

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].

REV. B

FSCM NO. 53919

CAD FILE 062812

SCALE N/A

SIZE A

2233

PASTERNAK ENTERPRISES, INC.
 P.O. BOX 16759, IRVINE, CA 92623
 PHONE (949) 261-1920 FAX (949) 261-7451
 WEB ADDRESS: www.pasternack.com
 E-MAIL ADDRESS: sales@pasternack.com
COAXIAL & FIBER OPTICS

