



3 dB Fixed Attenuator, N Male to N Female  
Directional Black Anodized Aluminum Heatsink  
Body Rated to 500 Watts Up to 2.4 GHz

## RF Fixed Attenuators Technical Data Sheet

PE7085-3

### Features

- Directional
- DC to 2.4 GHz Frequency Range
- Attenuation 3±0.75 dB
- Max Power 500 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 3 dB Fixed Attenuator PE7085-3 is rated to 500 Watts and operates from DC to 2.4 GHz. The versatile coaxial package uses N male to 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		2.4	GHz
Impedance		50		Ohms
Nominal Attenuation		3		dB
VSWR			1.35:1	
Input Power, CW			500	Watts
Input Power, Peak			2	KWatts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3 dB Fixed Attenuator, N Male to N Female Directional Black Anodized Aluminum Heatsink Body Rated to 500 Watts Up to 2.4 GHz PE7085-3](#)



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### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 1	1 to 2.4				GHz
VSWR, Max	1.25:1	1.35:1				
Attenuation Accuracy, Typ	±0.3	±0.75				dB

### Mechanical Specifications

#### Size

Length	17 in [431.8 mm]
Width/Diameter	6.75 in [171.45 mm]
Height	6 in [152.4 mm]
Weight	16 lbs [7.26 Kg]
Body Material and Plating	Black Anodized Aluminum Heatsink

#### Configuration

Design	Fixed, Directional
Package Style	Connectorized Module

#### Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female

### Environmental Specifications

#### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant	
REACH Compliant	12/17/2015

#### Plotted and Other Data

Notes:

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3 dB Fixed Attenuator, N Male to N Female Directional Black Anodized Aluminum Heatsink Body Rated to 500 Watts Up to 2.4 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3 dB Fixed Attenuator, N Male to N Female Directional Black Anodized Aluminum Heatsink Body Rated to 500 Watts Up to 2.4 GHz PE7085-3](http://www.pasternack.com/3db-fixed-n-male-n-female-500-watts-attenuator-pe7085-3-p.aspx)

URL: <http://www.pasternack.com/3db-fixed-n-male-n-female-500-watts-attenuator-pe7085-3-p.aspx>

PE7085-3 CAD Drawing

3 dB Fixed Attenuator, N Male to N Female Directional Black Anodized Aluminum Heatsink Body Rated to 500 Watts Up to 2.4 GHz

P/N	ATTEN.	FIGURE
PE7085-2	2 dB	1
PE7085-3	3 dB	1
PE7085-6	6 dB	1
PE7085-10	6 dB	1
PE7085-30	6 dB	1

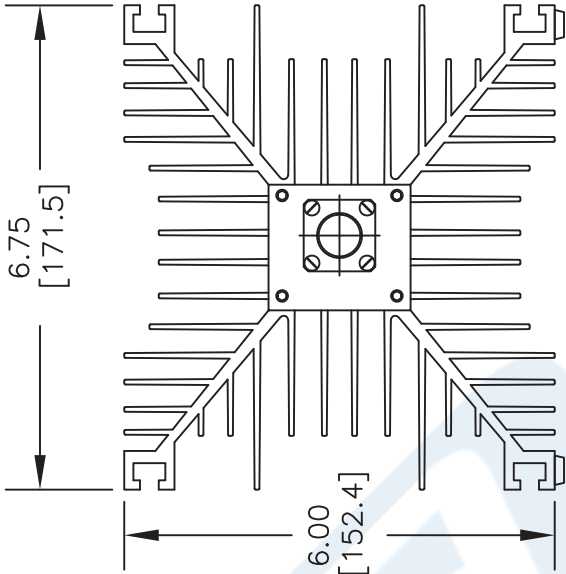
PASTERNAK  
PE7085-XX  
YYWW

← LABEL



SIDE VIEW

N. FEMALE  
OUTPUT



FRONT VIEW

N. MALE  
INPUT

FIGURE 1

DWG TITLE

PE7085

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].

**PE PASTERNAK**  
THE ENGINEER'S RF SOURCE

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FSCM NO. 53919

CAD FILE

022916

SCALE N/A

SIZE A

3045