

20 dB Fixed Attenuator, SMA Female To SMA Female
 Directional Black Anodized Aluminum Heatsink
 Body Rated To 50 Watts Up To 18 GHz

RF Fixed Attenuators Technical Data Sheet

PE7337-20

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 20 dB Fixed Attenuator PE7337-20 is rated to 50 Watts and operates from DC to 18 GHz. The versatile coaxial package uses SMA 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.

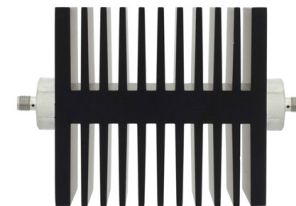
Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 18 | GHz |
| Impedance | | 50 | | Ohms |
| Nominal Attenuation | | 20 | | dB |
| VSWR | | | 1.6:1 | |
| Input Power, CW | | | 50 | Watts |
| Input Power, Peak | | | 500 | Watts |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|---------------------------|---------|-----------|------------|----|----|-------|
| Range | DC to 6 | 6 to 12.4 | 12.4 to 18 | | | GHz |
| VSWR, Max | 1.3:1 | 1.45:1 | 1.6:1 | | | |
| Attenuation Accuracy, Typ | 0.75 | 0.75 | 1.25 | | | dB |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [20 dB Fixed Attenuator, SMA Female To SMA Female Directional Black Anodized Aluminum Heatsink Body Rated To 50 Watts Up To 18 GHz PE7337-20](#)



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Mechanical Specifications

Size

| | |
|---------------------------|----------------------------------|
| Length | 3.22 in [81.79 mm] |
| Width/Diameter | 3 in [76.2 mm] |
| Height | 3 in [76.2 mm] |
| Weight | 1.7795 lbs [807.17 g] |
| Body Material and Plating | Black Anodized Aluminum Heatsink |

Configuration

| | |
|--------|--------------------|
| Design | Fixed, Directional |
|--------|--------------------|

Connectors

| Description | Connector 1 | Connector 2 |
|--------------------------------------|-----------------------------|-----------------------------|
| Type | SMA Female | SMA Female |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Outer Conductor Material and Plating | | Stainless Steel, Passivated |
| Coupling Nut Material and Plating | Stainless Steel, Passivated | |
| Coupling Nut Plating Specification | Stainless Steel | |
| Hex Size | 11/16 In. | 11/16 In. |
| Body Material and Plating | Stainless Steel, Passivated | Stainless Steel, Passivated |

Environmental Specifications

Temperature

| | |
|-----------------|-------------------|
| Operating Range | -55 to +125 deg C |
|-----------------|-------------------|

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

Plotted and Other Data

Notes:

20 dB Fixed Attenuator, SMA Female To SMA Female Directional Black Anodized Aluminum Heatsink Body Rated To 50 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.

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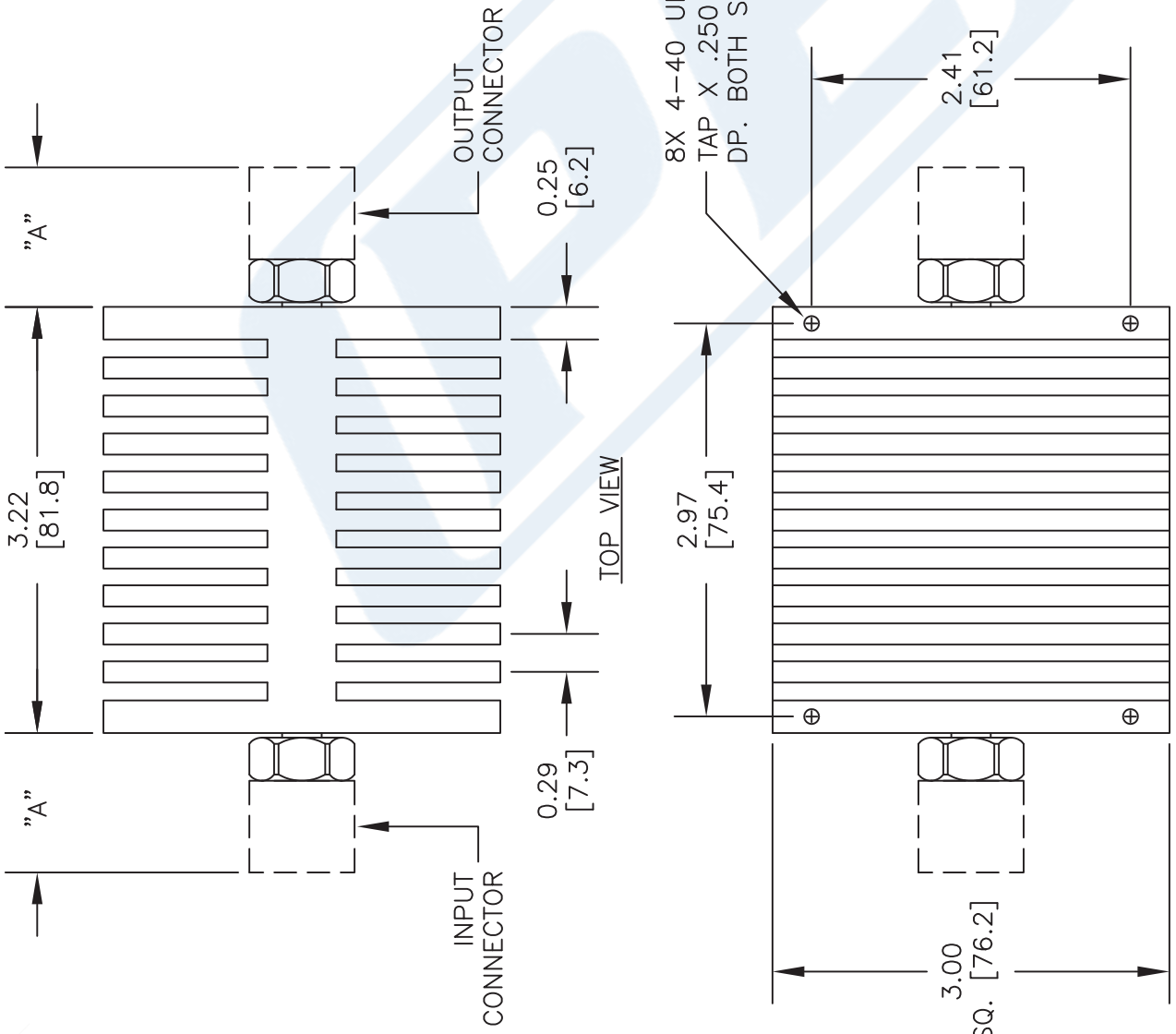
URL: <https://www.pasternack.com/20db-fixed-sma-female-sma-female-50-watts-attenuator-pe7337-20-p.aspx>

PE7337-20 CAD Drawing

20 dB Fixed Attenuator, SMA Female To SMA Female Directional Black Anodized Aluminum Heatsink Body Rated To 50 Watts Up To 18 GHz

| xx | Input Connector | Output Connector |
|----|-----------------|------------------|
| 10 | 7/16 Female | 7/16 Male |
| 11 | N Female | 7/16 Male |
| 12 | 7/16 Male | 7/16 Female |
| 13 | 7/16 Female | 7/16 Female |
| 14 | N Male | 7/16 Female |
| 15 | N Female | 7/16 Female |
| 16 | 7/16 Female | N Male |
| 17 | N Female | N Male |
| 18 | SMA Female | N Male |
| 19 | TNC Female | N Male |
| 20 | 7/16 Male | N Female |
| 21 | 7/16 Female | N Female |
| 22 | N Male | N Female |
| 23 | N Female | N Female |
| 24 | SMA Male | N Female |
| 25 | SMA Female | N Female |
| 26 | TNC Male | N Female |
| 27 | TNC Female | N Female |
| 28 | 7/16 Female | SMA Male |
| 29 | N Female | SMA Male |
| 30 | SMA Female | SMA Male |
| 31 | TNC Female | SMA Male |
| 32 | 7/16 Male | SMA Female |
| 33 | 7/16 Female | SMA Female |
| 34 | N Male | SMA Female |
| 35 | N Female | SMA Female |
| 36 | SMA Male | SMA Female |
| 37 | SMA Female | SMA Female |
| 38 | TNC Male | SMA Female |
| 39 | TNC Female | SMA Female |
| 40 | 7/16 Female | TNC Male |
| 41 | N Female | TNC Male |
| 42 | SMA Female | TNC Male |
| 43 | TNC Female | TNC Male |
| 44 | 7/16 Male | TNC Female |
| 45 | 7/16 Female | TNC Female |
| 46 | N Male | TNC Female |
| 47 | N Female | TNC Female |
| 48 | SMA Male | TNC Female |
| 49 | SMA Female | TNC Female |
| 50 | TNC Male | TNC Female |
| 51 | TNC Female | TNC Female |

| Table of Information | |
|----------------------|----------------|
| Connector Type | DIM "A" (REF.) |
| SMA Male | 0.68 |
| SMA Female | 0.54 |
| TNC Male | 0.98 |
| TNC Female | 0.94 |
| N Female | 0.95 |
| N Male | 0.98 |
| 7/16 Male | 1.12 |
| 7/16 Female | 1.16 |



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].

DWG TITLE
PE73xx-yy

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FSCM NO. 53919

CAD FILE 102512

SCALE N/A

SIZE A

2233