



20 dB Fixed Attenuator, SMA Male To SMA Female Directional Black Aluminum Heatsink Body Rated To 300 Watts Up To 3 GHz

TECHNICAL DATA SHEET

PE7406-20

Pasternack Enterprises' line of 300W Attenuators operate from DC to 3 GHz, and are available in 16 different 7/16 DIN, N, SMA and TNC in-series combinations. Our 300W Attenuators are manufactured with Passivated Stainless Steel SMA, TNC and N connectors, and Silver Plated Brass 7/16 DIN connectors. Pasternack 300W Attenuators come in 3 dB, 6 dB, 10 dB, 20 dB, 30 dB, 40 dB, & 50 dB values and will operate from -55 to +125 degrees C. Additional between-series connector combinations are available upon request.

- 300W average power and 2,500W peak power handling capability
- Operates to 3 GHz
- Temperature range of -55 to +125 degrees C
- 16 in-series combinations
- 7/16 DIN, SMA, N, TNC Male and Female connectors are available
- Other connector combinations available upon request

Configuration

| | |
|---------------------------|-------------------------------|
| Design | Fixed, Directional Attenuator |
| Connector 1 | SMA Male |
| Connector 2 | SMA Female |
| Body Material and Plating | Black Aluminum Heatsink |

Electrical Specifications * Values at 25°C, sea level

| Description | Minimum | Typical | Maximum | Units |
|--------------------|--------------------------------|---------|---------|--------|
| Frequency Range | DC | | 3 | GHz |
| Impedance | | 50 | | Ohms |
| Attenuation Value | | 20 | | dB |
| Accuracy Statement | Attenuation accuracy \pm / - | | | |
| Input Power | | | 300 | Watts |
| Peak Power | | | 2.5 | KWatts |
| VSWR | | | 1.4:1 | |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|----------------------|-----------|------------|----|----|----|-------|
| Range | DC to 1.5 | 1.5 to 3 | | | | GHz |
| VSWR | 1.2:1 | 1.4:1 | | | | |
| Attenuation Accuracy | \pm 1 | \pm 1.25 | | | | dB |

Mechanical Specifications

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

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 Male To SMA Female Directional Black Aluminum Heatsink Body Rated To 300 Watts Up To 3 GHz PE7406-20](#)



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Size

| | |
|--------|--------------------|
| Length | 5.6 in [142.24 mm] |
| Width | 6.2 in [157.48 mm] |
| Height | 6.3 in [160.02 mm] |
| Weight | 4 lbs [1.81 Kg] |

Connectors

| Description | Connector 1 | Connector 2 |
|--------------------------------------|----------------------------|----------------------------|
| Type | SMA Male | SMA Female |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Outer Conductor Material and Plating | | Passivated Stainless Steel |
| Coupling Nut Material and Plating | Passivated Stainless Steel | |
| Body Material and Plating | Passivated Stainless Steel | Passivated Stainless Steel |

Compliance Certifications (visit www.Pasternack.com for current document)
RoHS Compliant

Plotted and Other Data

Notes:

- Values at 25 °C, sea level
- Calculated Heatsink Thermal Rise: .7C / Watt

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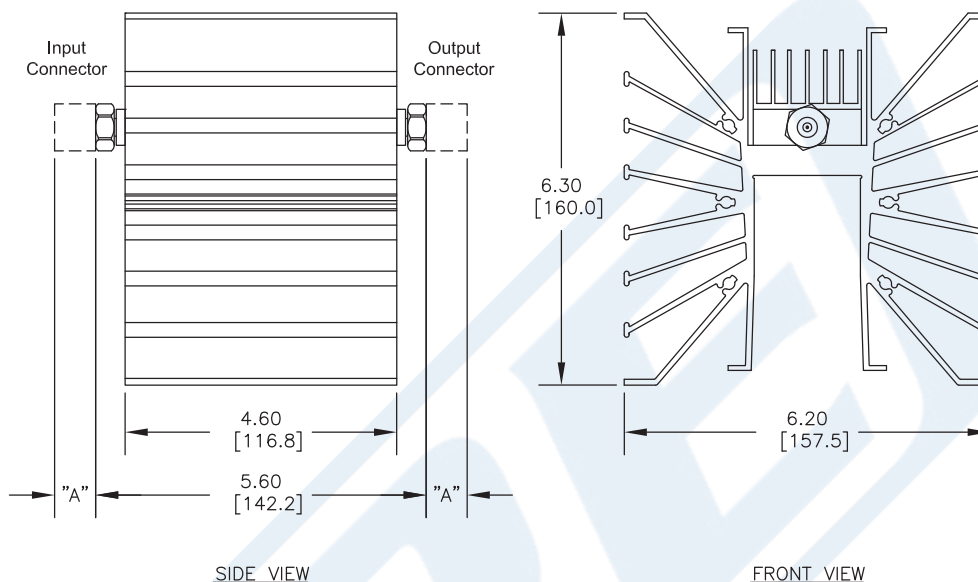


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Outline Drawing



| Part Number Configuration | | |
|---------------------------|-----------------------------|------------------|
| xx | Input Connector | Output Connector |
| 05 | SMA Male | SMA Male |
| 06 | SMA Male | SMA Female |
| 07 | SMA Female | SMA Female |
| 08 | SMA Female | SMA Male |
| 09 | N Male | N Male |
| 10 | N Male | N Female |
| 11 | N Female | N Female |
| 12 | N Female | N Male |
| 13 | TNC Male | TNC Male |
| 14 | TNC Male | TNC Female |
| 15 | TNC Female | TNC Female |
| 16 | TNC Female | TNC Male |
| 17 | 7/16 Male | 7/16 Male |
| 18 | 7/16 Male | 7/16 Female |
| 19 | 7/16 Female | 7/16 Female |
| 20 | 7/16 Female | 7/16 Male |
| -yy | Indicates Attenuation Level | |

| Table of Information | | |
|----------------------|----------------|--|
| Connector Type | Dim "A" (Ref.) | |
| SMA Male | 0.88 | |
| SMA Female | 0.73 | |
| TNC Male | 1.06 | |
| TNC Female | 1.16 | |
| N Female | 1.19 | |
| N Male | 1.23 | |
| 7/16 Male | 1.38 | |
| 7/16 Female | 1.42 | |

20 dB Fixed Attenuator, SMA Male To SMA Female Directional Black Aluminum Heatsink Body Rated To 300 Watts Up To 3 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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