



## High Power 100 Watt RF Load Up to 2.7 GHz with N Male Black Anodized Aluminum

### RF Terminations Technical Data Sheet

PE6TR1032A

#### Features

- IP67 Indoor/Outdoor Use (Totally dust tight and moisture protected from effects of prolonged immersion under pressure.)
- High Power RF 50 Ohm Impedance
- 380 to 2,700 MHz Frequency Range
- VSWR 1.22:1
- Max Power 100 Watts (CW)
- Low PIM
- N Male Coaxial Interface
- DC Open

#### Applications

- Wireless
- SatCom
- Test and Measurement
- Commercial and Military Communication
- Base Station
- 4G/AWS/PCS

#### Description

Pasternack's PE6TR1032A is a high power RF cable termination (also called RF load or dummy load) that operates from 380 to 2,700 MHz and handles up to 100 Watts (CW). Our N termination / load is a 50 Ohm impedance and has a male gender. PE6TR1032A load termination offers 1.22:1 VSWR and low PIM (passive intermodulation) of -160 dBc. This Pasternack 100 Watts terminator has a heatsink body which is designed to provide adequate heat dissipation within its full frequency of operation.

RF load / terminations are indispensable components in many RF, microwave and millimeter wave systems where signal reflection from unused ports can potentially damage the device or reduce the signal integrity. By terminating an unused port with a matched load (dummy load), the incident energy will be absorbed with minimal reflection. These termination components are commonly used to terminate devices such as couplers, hybrids, and combiners. They are also widely used in measurement systems to ensure accurate results. Pasternack offers a huge selection of RF, microwave and millimeter wave terminations up to 65 GHz with excellent performance over the entire operating range and power handling capabilities up to 800 Watts (CW).

#### Electrical Specifications

| Description             | Minimum | Typical | Maximum | Units |
|-------------------------|---------|---------|---------|-------|
| Frequency Range         | 0.38    |         | 2.7     | GHz   |
| Impedance               |         | 50      |         | Ohms  |
| Passive Intermodulation | -160    |         |         | dBc   |
| Input Power (CW)        |         |         | 100     | Watts |

#### Performance by Frequency

| Description     | F1            | F2             | F3           | F4 | F5 | Units |
|-----------------|---------------|----------------|--------------|----|----|-------|
| Frequency Range | 0.38 to 0.525 | 0.525 to 0.698 | 0.698 to 2.7 |    |    | GHz   |
| VSWR, Typ       | 1.38:1        | 1.29:1         | 1.22:1       |    |    |       |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [High Power 100 Watt RF Load Up to 2.7 GHz with N Male Black Anodized Aluminum PE-6TR1032A](#)



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**Mechanical Specifications**

**Size**

|        |                     |
|--------|---------------------|
| Length | 6.77 in [171.96 mm] |
| Width  | 4 in [101.6 mm]     |
| Height | 3.19 in [81.03 mm]  |
| Weight | 6.321 lbs [2.87 Kg] |

**Configuration**

|           |        |
|-----------|--------|
| Connector | N Male |
|-----------|--------|

**Material Specifications**

| Description | Material                | Plating |
|-------------|-------------------------|---------|
| Housing     | Black Anodized Aluminum |         |

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**

**Passive Intermodulation Test Data**

| Tone 1<br>Frequency (MHz) | Tone 2<br>Frequency (MHz) | IM3<br>Frequency (MHz) | PIM<br>Minimum (dBc) |
|---------------------------|---------------------------|------------------------|----------------------|
| 1945.0                    | 1990.0                    | 1900.0                 | -160.0               |
| P1                        | P2                        | PIM                    | Result               |
| 43.0 dBm                  | 43.0 dBm                  | -168.1 dBc             | Pass                 |

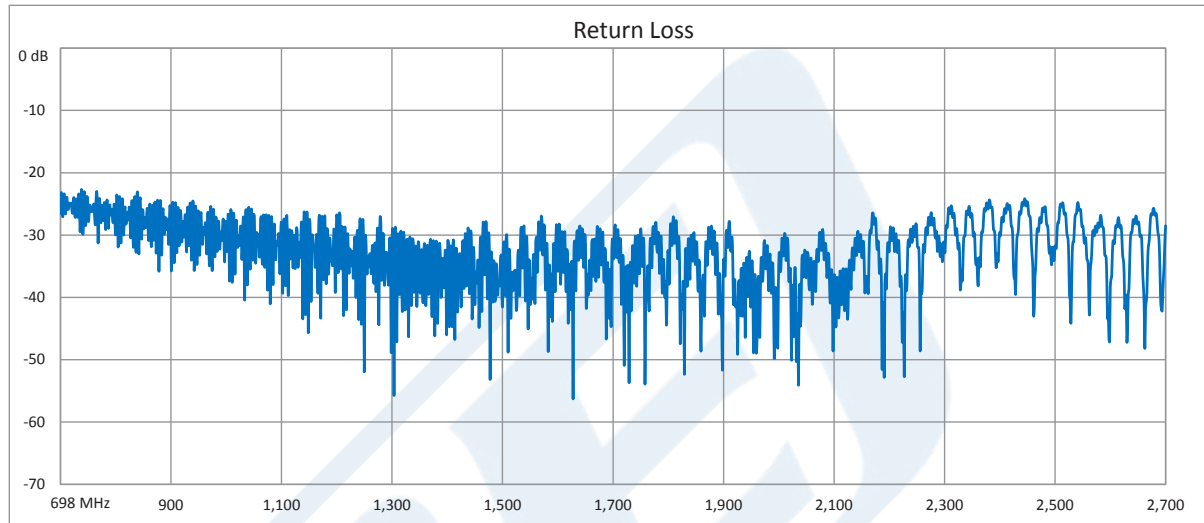
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High Power 100 Watt RF Load Up to 2.7 GHz with N Male Black Anodized Aluminum from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

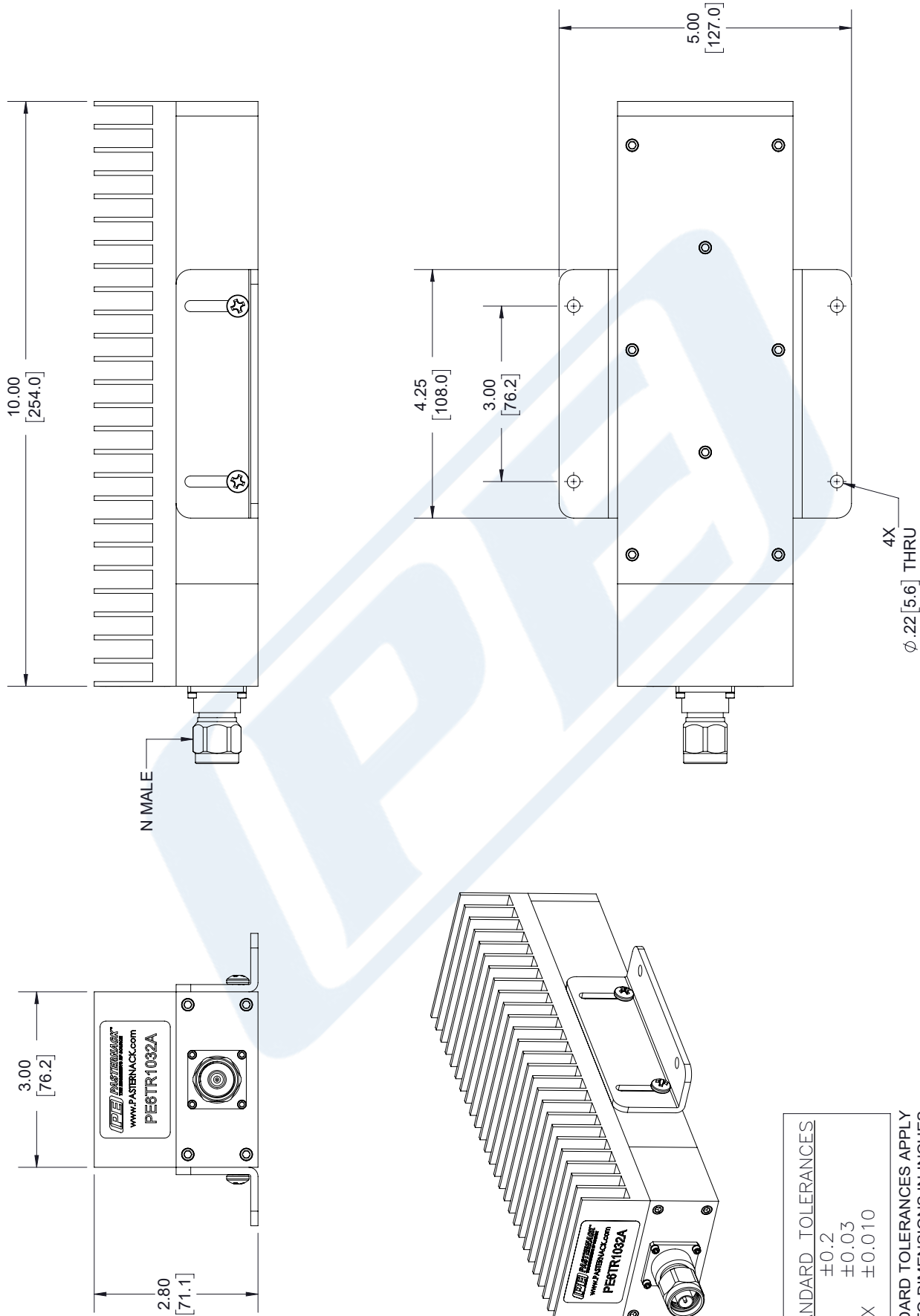
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [High Power 100 Watt RF Load Up to 2.7 GHz with N Male Black Anodized Aluminum PE6TR1032A](https://www.pasternack.com/100-watts-n-male-rf-load-2.7-ghz-low-pim-pe6tr1032a-p.aspx)

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The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

# PE6TR1032A CAD Drawing

High Power 100 Watt RF Load Up to 2.7 GHz with N Male Black Anodized Aluminum



### STANDARD TOLERANCES

.X ±0.2  
 .XX ±0.03  
 .XXX ±0.010

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PE6TR1032A

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].

CAGE CODE 53919

CAD FILE 010918

SCALE N/A

SIZE A

7361