



50 Watt RF Load Up to 8.5 GHz with N Male  
Black Anodized Aluminum Heatsink

RF Terminations Technical Data Sheet

PE6TR029

**Features**

- DC to 8.5 GHz Frequency Range
- VSWR 1.3:1 Max
- Max Power 50 Watts (CW)
- N Male Coaxial Interface

**Applications**

- Wireless
- Radar Systems
- Commercial and Military Communication
- SatCom
- Test and Measurement

**Description**

RF termination (also called RF load or dummy load) PE6TR029 from Pasternack operates from DC to 8.5 GHz and handles up to 50 Watts (CW). This N termination (or load) has a male gender. PE6TR029 N load termination offers 1.3:1 max VSWR. This 50W N terminator from Pasternack has a heatsink body which is designed to provide adequate heat dissipation within its full frequency of operation.

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

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8.5	GHz
Impedance		50		Ohms
VSWR			1.3:1	
Input Power (CW) derated linearly to 2.5W at +125°C			50	Watts
Input Power (Peak) 5µs pulse, 0.5% duty cycle			5	kWatts

**Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 4	4 to 8.5				GHz
VSWR, Max	1.2:1	1.3:1				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Watt RF Load Up to 8.5 GHz with N Male Black Anodized Aluminum Heatsink PE6TR029](#)



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### Mechanical Specifications

#### Size

Length	3.8 in [96.52 mm]
Width	1.62 in [41.15 mm]
Weight	0.376 lbs [170.55 g]

#### Configuration

Connector	N Male
Connector Specification	MIL-STD-348A

### Material Specifications

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold
Body	Passivated Stainless Steel	
Coupling Nut	Passivated Stainless Steel	
Housing	Black Anodized Aluminum Heatsink	

### Environmental Specifications

#### Temperature

Operating Range	-55 to +125 deg C
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**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

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PE6TR029

50 Watt RF Load Up to 8.5 GHz with N Male Black Anodized Aluminum Heatsink 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.

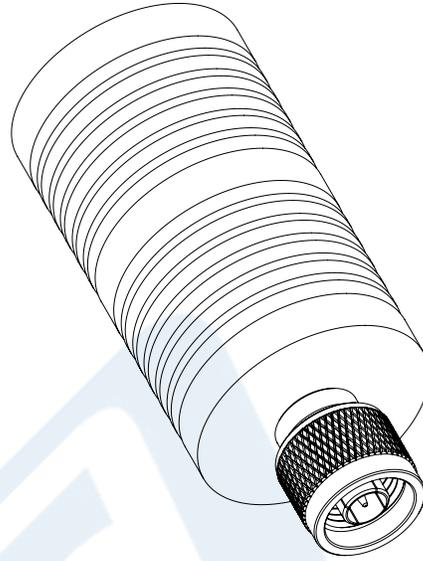
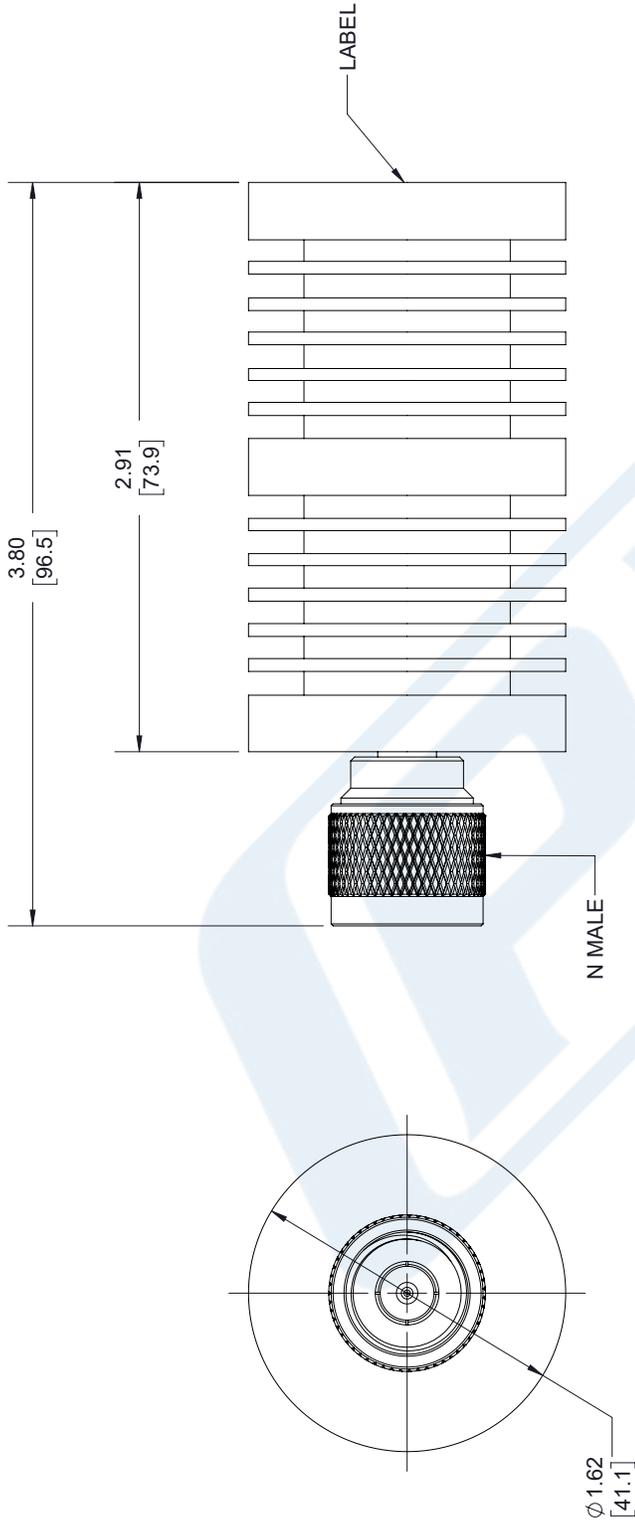
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Watt RF Load Up to 8.5 GHz with N Male Black Anodized Aluminum Heatsink PE6TR029](https://www.pasternack.com/50-watts-n-male-rf-load-8.5-ghz-pe6tr029-p.aspx)

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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.

# PE6TR029 CAD Drawing

50 Watt RF Load Up to 8.5 GHz with N Male Black Anodized Aluminum Heatsink



LABEL



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PE6TR029

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 07/10/18

SCALE N/A

SIZE A

7361