



# 10 Watt RF Load Up to 6 GHz With N Male Input IP68 Rated Black Anodized Aluminum Heatsink

## RF Terminations Technical Data Sheet

PE6185

### Features

- DC to 6 GHz Frequency Range
- VSWR 1.15:1 Max
- Max Power 10 Watt (CW)
- N Male Coaxial Interface
- IP68 Rated

### Applications

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

### Description

Pasternack's PE6185 is an RF termination (also called RF load or dummy load) that operates from DC to 6 GHz and handles up to 10 Watt (CW). Our N termination / load has a male gender. PE6185 N load termination offers 1.15:1 max VSWR. This Pasternack 10W N 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 using a terminator on 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, circulators, and switches. 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 Watt (CW).

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
VSWR			1.15:1	
Input Power (CW) derated linearly to 1W at +125°C			10	Watts
Input Power (Peak) 0.2% duty cycle			1	KWatts

### Mechanical Specifications

<b>Size</b>	
Length	2.01 in [51.05 mm]
Width	1.1 in [27.94 mm]
Weight	0.1 lbs [45.36 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10 Watt RF Load Up to 6 GHz With N Male Input IP68 Rated Black Anodized Aluminum Heatsink PE6185](#)



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### Configuration

Connector

N Male

### Material Specifications

Description	Material	Plating
Connector 1 Contact	Brass	Gold
Insulation	PTFE	
Outer Conductor	Brass	Tri-Metal
Body	Brass	Tri-Metal
Coupling Nut	Brass	Tri-Metal
Housing	Black Anodized Aluminum Heatsink	

### Environmental Specifications

#### Temperature

Operating Range

-40 to +120 deg C

Ingress Protection (IP) Rating

IP68 (mated condition)

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

RoHS Compliant

REACH Compliant

12/17/2015

### Plotted and Other Data

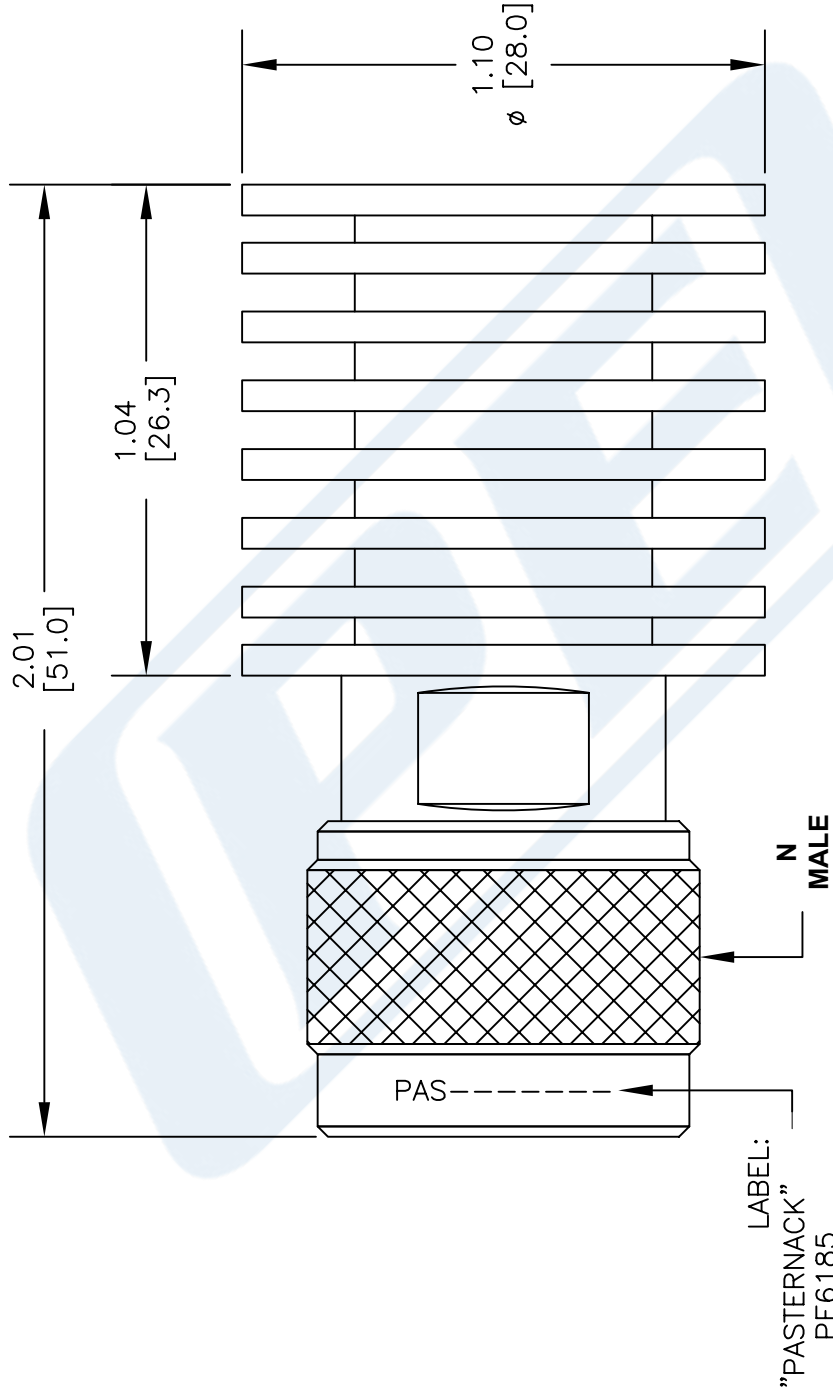
Notes:

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# PE6185 CAD Drawing

10 Watt RF Load Up to 6 GHz With N Male Input IP68 Rated  
Black Anodized Aluminum Heatsink



**STANDARD TOLERANCES**  
 DECIMAL ±0.20  
 .XX ±0.10  
 .XXX ±0.10

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

**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  
**PE6185**

**PE PASTERNAK®**  
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CAD FILE 052616

FSCM NO. 53919

SCALE N/A

SIZE A

3045