



50 Watt RF Load Up to 18 GHz With N Female Input Square Body Black Anodized Aluminum Heatsink

RF Terminations Technical Data Sheet

PE6039

Features

- DC to 18 GHz Frequency Range
- VSWR 1.45:1 Max
- Max Power 50 Watt (CW)
- N Female Coaxial Interface

Applications

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

Description

Pasternack's PE6039 is an RF termination (also called RF load or dummy load) that operates from DC to 18 GHz and handles up to 50 Watt (CW). Our N termination / load has a female gender. PE6039 N load termination offers 1.45:1 max VSWR. This Pasternack 50W 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		18	GHz
Impedance		50		Ohms
VSWR			1.45:1	
Input Power (CW) derated linearly to 10W at +125°C			50	Watts
Input Power (Peak) 5µs pulse, 0.05% duty cycle			500	Watts

Mechanical Specifications

Size	
Length	3.82 in [97.03 mm]
Width	3.5 in [88.9 mm]
Height	2.65 in [67.31 mm]
Weight	1.491 lbs [676.31 g]

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 18 GHz With N Female Input Square Body Black Anodized Aluminum Heatsink PE6039](#)



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Square Body Black Anodized Aluminum Heatsink

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Configuration

Connector N Female
Connector Specification MIL-STD-348

Material Specifications

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

Environmental Specifications

Temperature

Operating Range -65 to +125 deg C

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

RoHS Compliant
REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

50 Watt RF Load Up to 18 GHz With N Female Input Square Body 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% 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 18 GHz With N Female Input Square Body Black Anodized Aluminum Heatsink PE6039](http://www.Pasternack.com/50-watts-n-female-rf-load-up-to-18-ghz-pe6039-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.

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Body Black Anodized Aluminum Heatsink



NOTE:
MOUNTING HOLES ARE LOCATED ON ONE SIDE ONLY.

PE6039

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].

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FSCM NO. 53919

CAD FILE **072414**

SIZE A

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