

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

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

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, Input			1.3:1	
Input Power (CW)			50	Watts
derated linearly to 2.5W at +125°C				
Input Power (Peak)			5	kWatts
5µs pulse, 0.5% duty cycle				

Performance by Frequency

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

Mechanical Specifications

Size

Length	3.8 in [96.52 mm]
Width	1.62 in [41.15 mm]
Height	2.9 in [73.66 mm]
Weight	0.3654 lbs [165.74 g]
Package Type	Connectorized

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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:

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](#)

URL: <https://www.pasternack.com/50-watts-n-male-rf-load-8.5-ghz-pe6tr029-p.aspx>

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PE6TR029 CAD Drawing

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