

0 to 70 dB Benchtop Rotary Step Attenuator, N Female to N Female with 1 dB Step Rated to 2 Watts Up to 6 GHz



PE70A1051N

Features

- Two Rotary Dials
- 0 to 70 dB Attenuation
- 1.65:1 VSWR Maximum
- ±3.5 dB Attenuation Accuracy Maximum
- SMA Female Connectors
- Maximum Power 2 Watts (CW)

Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems

Description

The PE70A1051N is a Step Attenuator that has 70 dB of total attenuation in a Rotary Step designed across the frequency range of DC to 6 GHz. Turn rotary dials for desired attenuation level, total attenuation is the sum of all selected. The design is tried and true technology that offers exceptional performance characteristics that include 1.8 dB maximum insertion loss, and a maximum VSWR of 1.65:1. The design also features excellent attenuation accuracy with ±3.5% dB maximum. The Aluminum package has N-Type Female connectors, and operates within the temperature range of -20°C to 85°C.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------|---------|---|---------|-------|
| Frequency Range | DC | | 6 | GHz |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | | 1.8 | dB |
| Attenuation Value | | 0 to 70 | | dB |
| Step Size | | 1 | | dB |
| Step Type | | Benchtop Rotary | | |
| Accuracy Statement | | ±0.5dB (=10dB) ± 0.8dB or 3% (<70dB) ±3.5% (70dB) | | |
| Input Power (CW) | | | 2 | Watts |
| Input Power, Peak | | | 100 | Watts |
| 5 µs pulse width 2% duty cycle | | | | |
| VSWR | | | 1.65:1 | |

Electrical Specification Notes:

Accuracy Statement applies to largest value

Mechanical Specifications

Size

| | |
|---------------------------|--------------------|
| Length | 7.5 in [190.5 mm] |
| Width | 3.43 in [87.12 mm] |
| Height | 3.11 in [78.99 mm] |
| Weight | 2.58 lbs [1.17 kg] |
| Body Material and Plating | Aluminum, Paint |

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------|------------------------|------------------------|
| Type | N Female | N Female |
| Contact Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |

Environmental Specifications

Temperature

Operating Range

-20 to 85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

0 to 70 dB Benchtop Rotary Step Attenuator, N Female to N Female with 1 dB Step Rated to 2 Watts Up to 6 GHz 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: [0 to 70 dB Benchtop Rotary Step Attenuator, N Female to N Female with 1 dB Step Rated to 2 Watts Up to 6 GHz PE70A1051N](#)

URL: <https://www.pasternack.com/70db-step-n-female-n-female-2-watts-attenuator-pe70a1051n-p.aspx>

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PE70A1051N CAD Drawing

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