

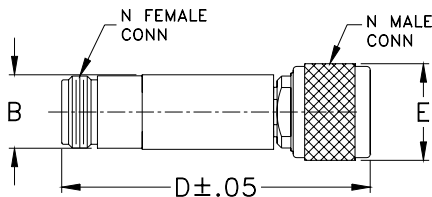
# DC Passing Attenuator Fixed

50Ω 650 to 3500 MHz

## Maximum Ratings

|   |                |
|---|----------------|
| Operating Temperature   | -55°C to 100°C |
| Storage Temperature   | -55°C to 100°C |
| Permanent damage may occur if any of these limits are exceeded. |                |

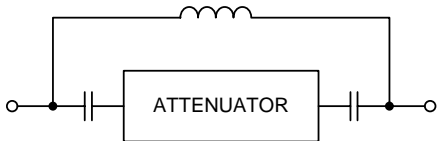
## Outline Drawing



## Outline Dimensions (inch/mm)

| B     | D     | E     | wt    |
|-------|-------|-------|-------|
| .67   | 2.90  | .82   | grams |
| 17.02 | 73.66 | 20.83 | 90.0  |

## Electrical Schematic



## Features

- high DC current handling
- high DC breakdown voltage
- DC resistance (in/out) 0.1Ω, typ.

## Applications

- power passing
- instrumentation
- test equipment
- lab use

NAT-3DC-1A+



| CASE STYLE: FF57 |             |             |       |
|------------------|-------------|-------------|-------|
| Connectors       | Model       | Price       | Qty.  |
| N-Type           | NAT-3DC-1A+ | \$19.95 ea. | (1-9) |

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

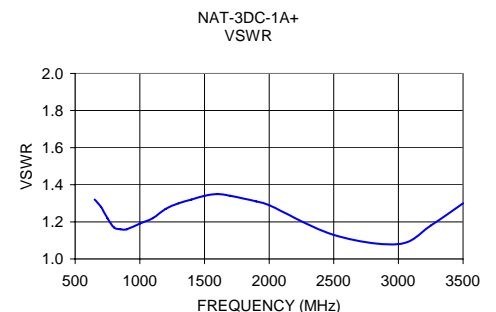
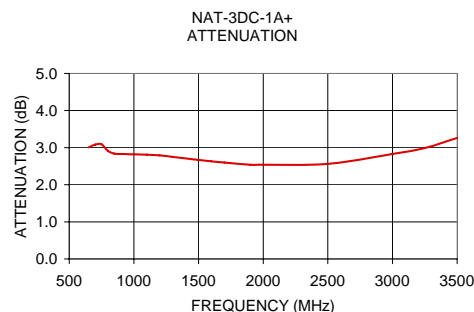
The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

## Electrical Specifications (T<sub>AMB</sub> = 25°C)

| FREQUENCY (MHz) | ATTENUATION (dB) |                | VSWR (:1) | POWER (mW) | DC CURRENT (Amps) | DC BREAKDOWN (Volts) |
|-----------------|------------------|----------------|-----------|------------|-------------------|----------------------|
|                 | Nom.             | Flatness, Max. |           |            |                   |                      |
| 650-3500        | 3±0.5            | ±0.7           | 1.6       | 1000       | 1                 | 50                   |

## Typical Performance Data at 25°C

| Frequency (MHz) | Attenuation (dB) | VSWR (:1) |
|-----------------|------------------|-----------|
| 650.00          | 3.01             | 1.32      |
| 700.00          | 3.08             | 1.28      |
| 750.00          | 3.09             | 1.22      |
| 800.00          | 2.91             | 1.17      |
| 850.00          | 2.84             | 1.16      |
| 900.00          | 2.83             | 1.16      |
| 1000.00         | 2.82             | 1.19      |
| 1100.00         | 2.81             | 1.22      |
| 1200.00         | 2.79             | 1.27      |
| 1300.00         | 2.75             | 1.30      |
| 1400.00         | 2.71             | 1.32      |
| 1500.00         | 2.67             | 1.34      |
| 1600.00         | 2.63             | 1.35      |
| 1700.00         | 2.60             | 1.34      |
| 1900.00         | 2.54             | 1.31      |
| 2000.00         | 2.54             | 1.29      |
| 2500.00         | 2.56             | 1.13      |
| 3000.00         | 2.83             | 1.08      |
| 3250.00         | 2.99             | 1.18      |
| 3500.00         | 3.26             | 1.30      |



**Mini-Circuits®**  
ISO 9001 ISO 14001 AS 9100 CERTIFIED

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IF/RF MICROWAVE COMPONENTS

**Notes:** 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp).

REV. OR  
M109697  
NAT-3DC-1A+  
ED-12836/1  
WZ/CP  
070316