

RF Load 50 Watts Medium Power To 3 GHz Black Anodized Aluminum Heatsink N Male

RF termination (also called RF load or dummy load) ST3N501 from Fairview Microwave operates from DC to 3 GHz and handles up to 50 Watts (CW). This N termination (or load) has a male gender. ST3N501 N load termination offers 1.25:1 max VSWR. This 50W N terminator from Fairview Microwave 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. Fairview 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).



Features:

- DC to 3 GHz Frequency Range
- VSWR 1.25:1 Max
- Max Power 50 Watts (CW)
- N Male Coaxial Interface

Applications:

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

Electrical Specifications

| Description | Min | Typ | Max | Units |
|--|-----|-----|--------|-------|
| Frequency Range | DC | | 3 | GHz |
| Impedance | | 50 | | Ohms |
| VSWR | | | 1.25:1 | |
| Input Power (CW) derated linearly to 5W at +125°C | | | 50 | Watts |
| Input Power (Peak) | | | 500 | Watts |

Mechanical Specifications

| Size | |
|--------|-----------------------|
| Length | 3.9 in [99.06 mm] |
| Width | 1.57 in [39.88 mm] |
| Weight | 0.46341 lbs [210.2 g] |

Configuration

| | |
|-----------|--------|
| Connector | N Male |
|-----------|--------|

Material Specifications

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

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Environmental Specifications

Temperature

Operating Range -45 to +125 deg C

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

RoHS Compliant Yes
REACH Compliant 12/17/2015

Plotted and Other Data

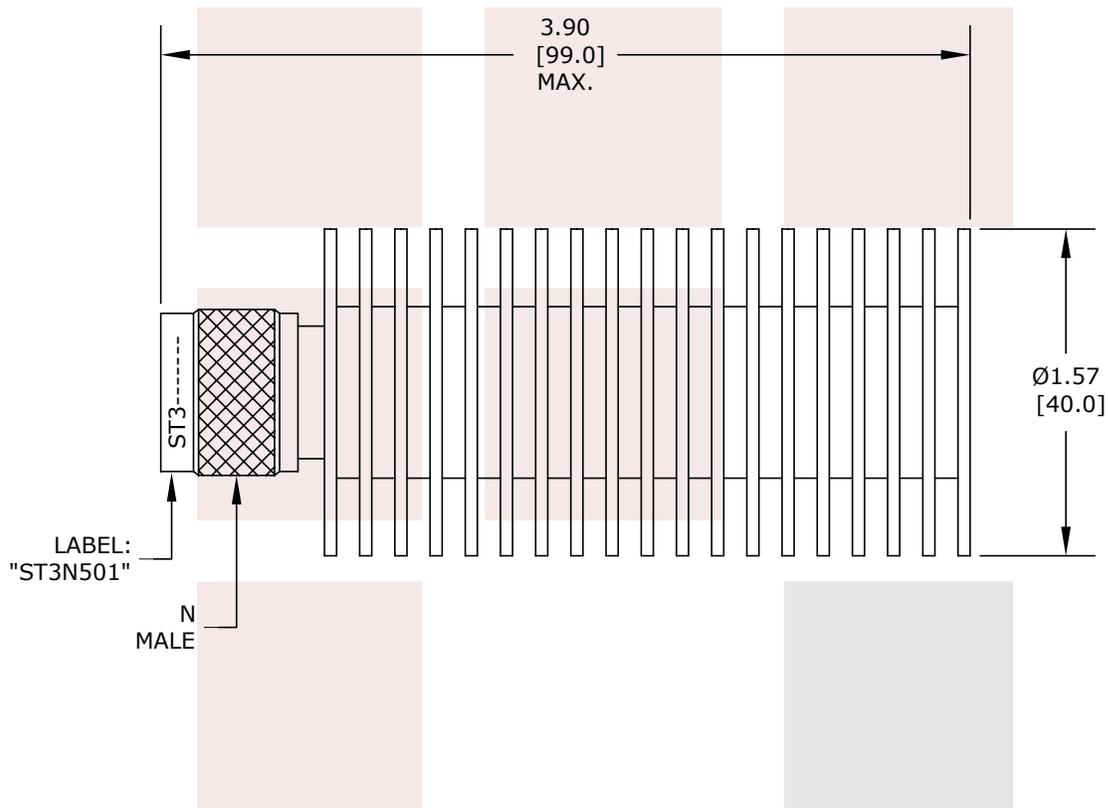
Notes:

RF Load 50 Watts Medium Power To 3 GHz Black Anodized Aluminum Heatsink N Male from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [RF Load 50 Watts Medium Power To 3 GHz Black Anodized Aluminum Heatsink N Male ST3N501](#)

URL: <https://www.fairviewmicrowave.com/rf-load-50-watts-3-ghz-n-male-st3n501-p.aspx>

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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



| STANDARD TOLERANCES | |
|---------------------|-------|
| DECIMAL | |
| .XX | ±0.20 |
| .XXX | ±0.10 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

| | | | | | |
|---|--------|---|-------|--------------------|-------------|
| FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | 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]. | | | |
| TITLE RF Load 50 Watts Medium Power To 3 GHz Black Anodized Aluminum Heatsink N Male | | DWG NO ST3N501 | | CAGE CODE 3FKR5 | |
| CAD FILE | 041316 | SHEET | SCALE | N/A | SIZE A 3045 |