

RF Load 100 Watts High Power To 3 GHz SMA Female

High power RF termination (also called RF load or dummy load) ST3NF50PL from Fairview Microwave operates from DC to 3 GHz and handles up to 100 Watts (CW). This SMA termination (or load) has a female gender. ST3NF50PL SMA load termination offers 1.25:1 max VSWR.

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:

- High Power RF Load
- DC to 3 GHz Frequency Range
- VSWR 1.25:1 Max
- Max Power 100 Watts (CW)
- SMA Female 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)			100	Watts

Mechanical Specifications

Size

Length	0.88 in [22.35 mm]
Width	1.38 in [35.05 mm]
Height	0.56 in [14.22 mm]
Weight	0.1135 lbs [51.48 g]

Configuration

Connector	SMA Female
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Material Specifications

Description	Material	Plating
Connector 1 Contact	Brass	
Body	Copper	Nickel

Mechanical Specification Notes:

- Heatsink is required for proper operation.
- Unit is cooled by conduction to heatsink.
- Housing temperature must be maintained at +100°C or less.

Environmental Specifications

Temperature

Operating Range	-40 to +70 deg C
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Fairview Microwave
 1130 Junction Dr. #100
 Allen, TX 75013
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

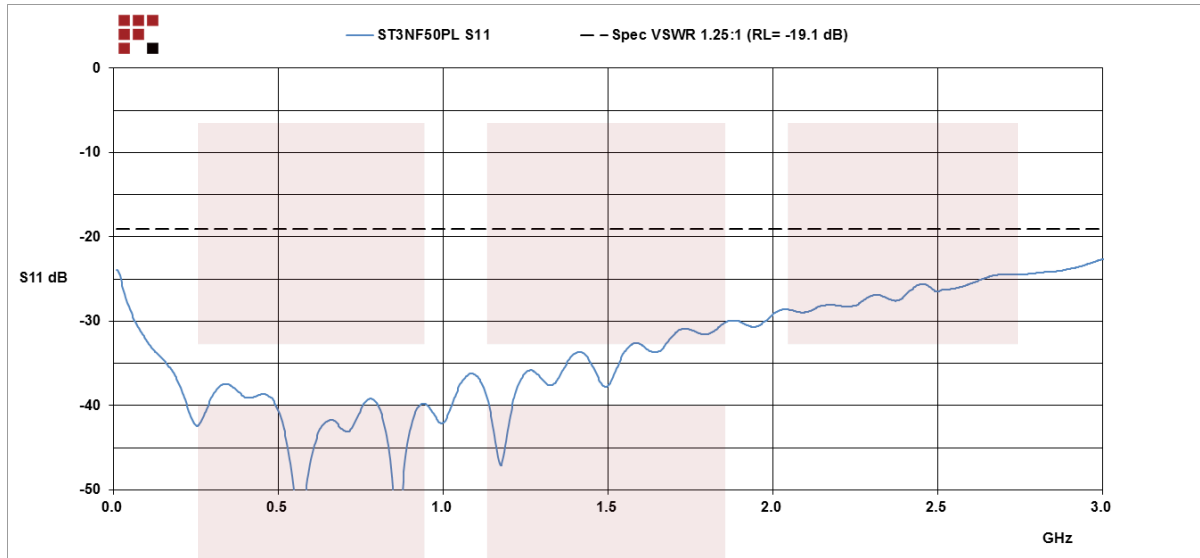
Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant Yes
 REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

Typical Performance Data

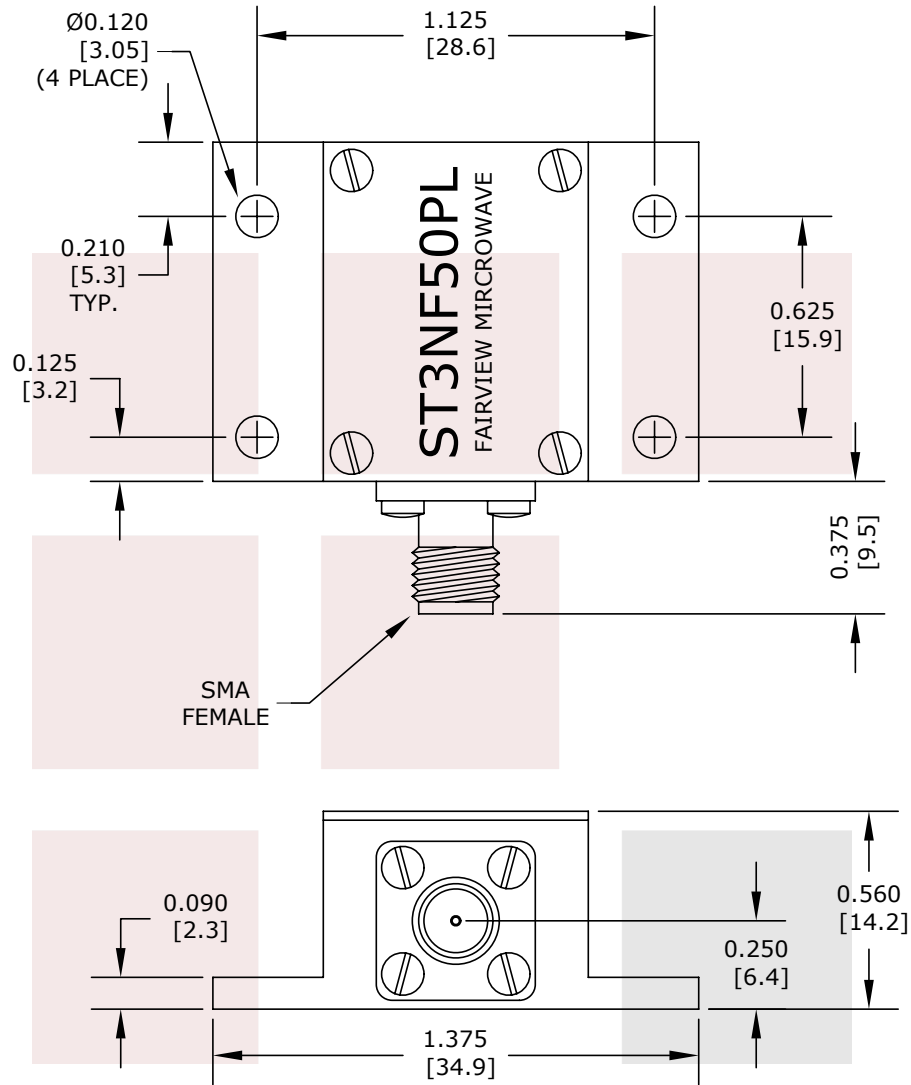


RF Load 100 Watts High Power To 3 GHz SMA Female from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [RF Load 100 Watts High Power To 3 GHz SMA Female ST3NF50PL](#)

URL: <https://www.fairviewmicrowave.com/rf-load-50-watts-4-ghz-sma-female-st3nf50pl-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	
.X	±0.2
.XX	±0.1
.XXX	±0.05

*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 100 Watts High Power To 3 GHz SMA Female		DWG NO ST3NF50PL		CAGE CODE 3FKR5	
CAD FILE	070716	SHEET	SCALE	N/A	SIZE A 3045