

## RF Load 5 Watts To 8 GHz Black Anodized Aluminum Heatsink SMA Male

RF termination (also called RF load or dummy load) ST3051 from Fairview Microwave operates from DC to 8 GHz and handles up to 5 Watts (CW). This SMA termination (or load) has a male gender. ST3051 SMA load termination offers 1.2:1 max VSWR. This 5W SMA 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).

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
VSWR			1.2:1	
Input Power (CW) derated linearly to 1W at +125°C			5	Watts

### Mechanical Specifications

<b>Size</b>	
Length	1.2 in [30.48 mm]
Width	1.02 in [25.91 mm]
Weight	0.06305 lbs [28.6 g]

### Configuration

Connector	SMA Male
Hex Size	5/16 inch

### 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	



### Features:

- DC to 8 GHz Frequency Range
- VSWR 1.2:1 Max
- Max Power 5 Watts (CW)
- SMA Male Coaxial Interface

### Applications:

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

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**Environmental Specifications**

**Temperature**

Operating Range -45 to +125 deg C

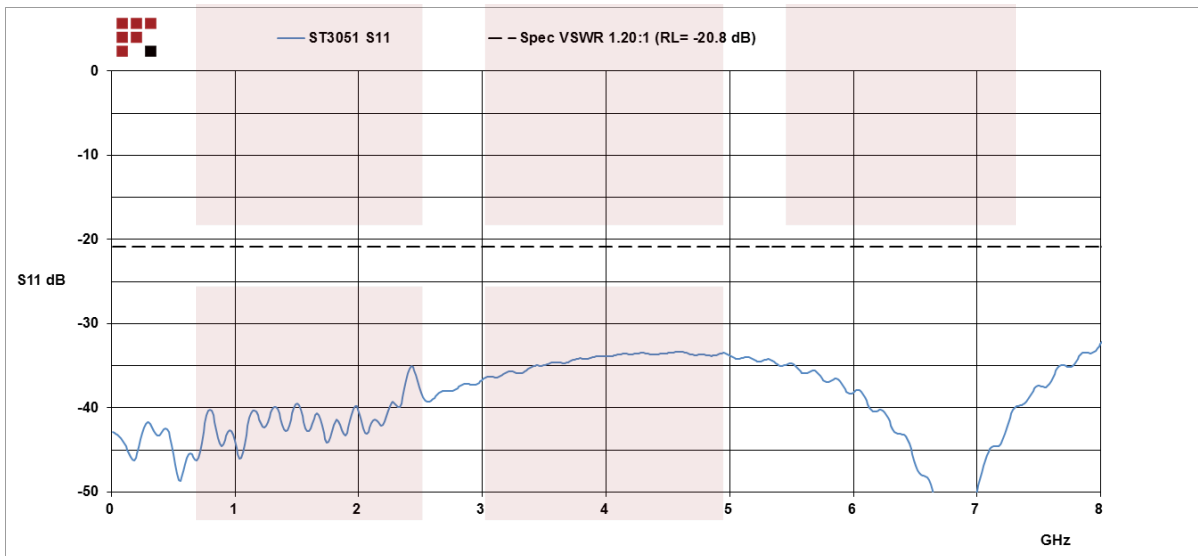
**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant Yes  
 REACH Compliant 12/17/2015

**Plotted and Other Data**

Notes:

**Typical Performance Data**

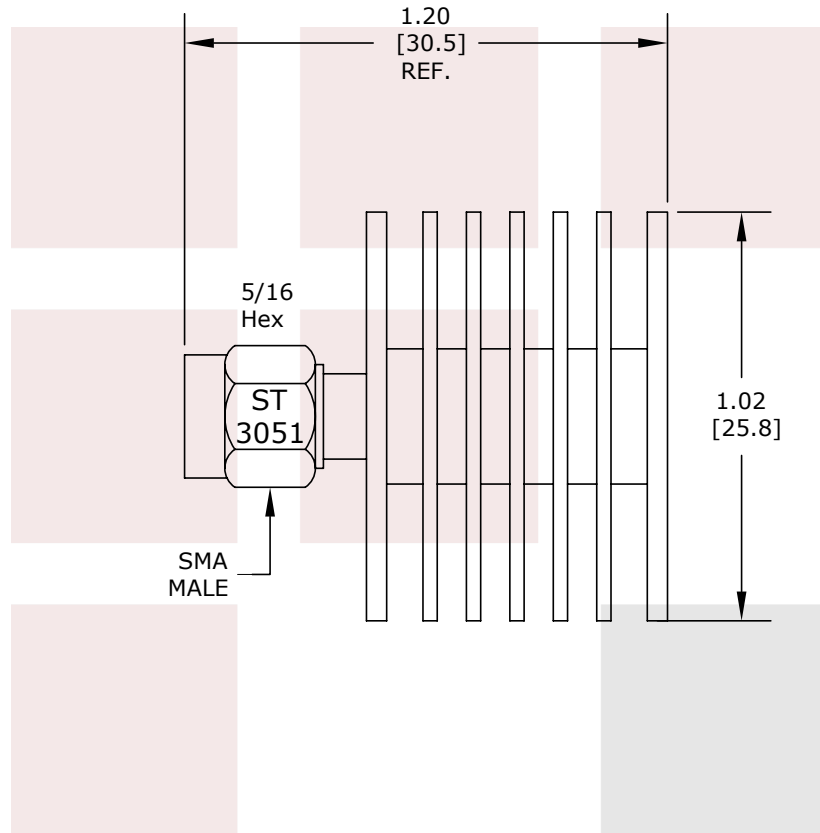


RF Load 5 Watts To 8 GHz Black Anodized Aluminum Heatsink SMA Male from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [RF Load 5 Watts To 8 GHz Black Anodized Aluminum Heatsink SMA Male ST3051](#)

URL: <https://www.fairviewmicrowave.com/rf-load-5-watts-3-ghz-sma-male-st3051-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	±0.01
.XXX	±0.005

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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TITLE RF Load 5 Watts To 8 GHz Black Anodized Aluminum Heatsink SMA Male		DWG NO <b>ST3051</b>		CAGE CODE <b>3FKR5</b>	
CAD FILE	062416	SHEET	SCALE	N/A	SIZE A 3045