

**RF Load 1 Watts To 50 GHz Passivated Stainless Steel 2.4mm Female**

RF termination (also called RF load or dummy load) ST5039 from Fairview Microwave operates from DC to 50 GHz and handles up to 1 Watt (CW). This 2.4mm termination (or load) has a female gender. ST5039 2.4mm load termination offers 1.45:1 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:**

- DC to 50 GHz Frequency Range
- VSWR 1.45:1 Max
- Max Power 1 Watt (CW)
- 2.4mm 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		50	GHz
Impedance		50		Ohms
VSWR			1.45:1	
Input Power (CW) derated linearly to 0.1W at +100°C			1	Watts

**Mechanical Specifications**

Size	
Length	0.61 in [15.49 mm]
Width	0.315 in [8 mm]
Weight	0.00838 lbs [3.8 g]

Configuration	
Connector	2.4mm Female

**Material Specifications**

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold MIL-PRF-39012
Body	Passivated Stainless Steel	
Housing	Passivated Stainless Steel	

**Environmental Specifications**

Temperature	
Operating Range	-55 to +100 deg C

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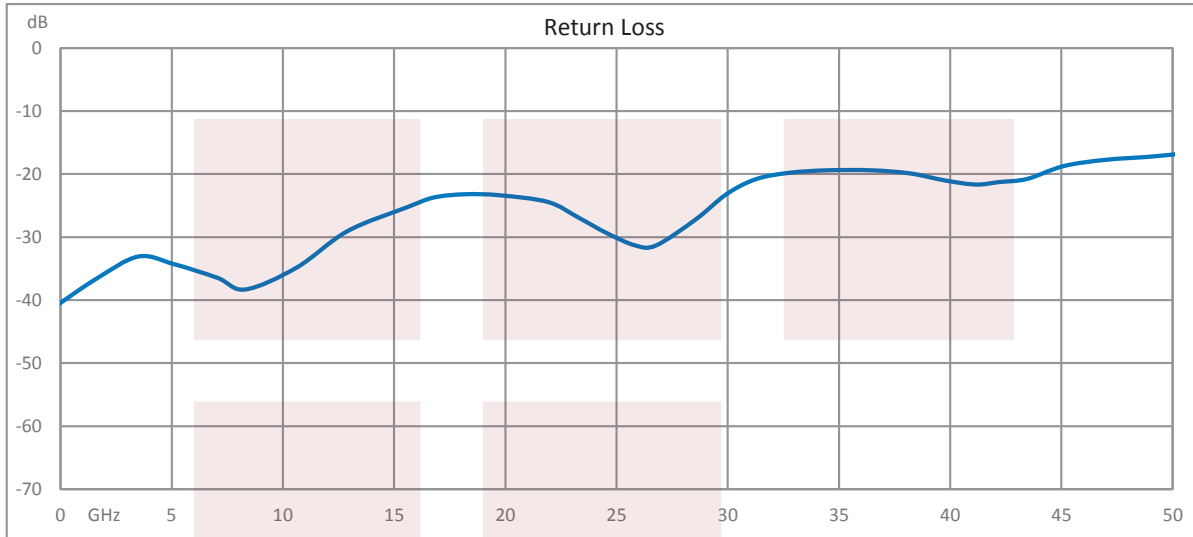
**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant Yes  
 REACH Compliant 12/17/2015

**Plotted and Other Data**

Notes:

**Typical Performance Data**

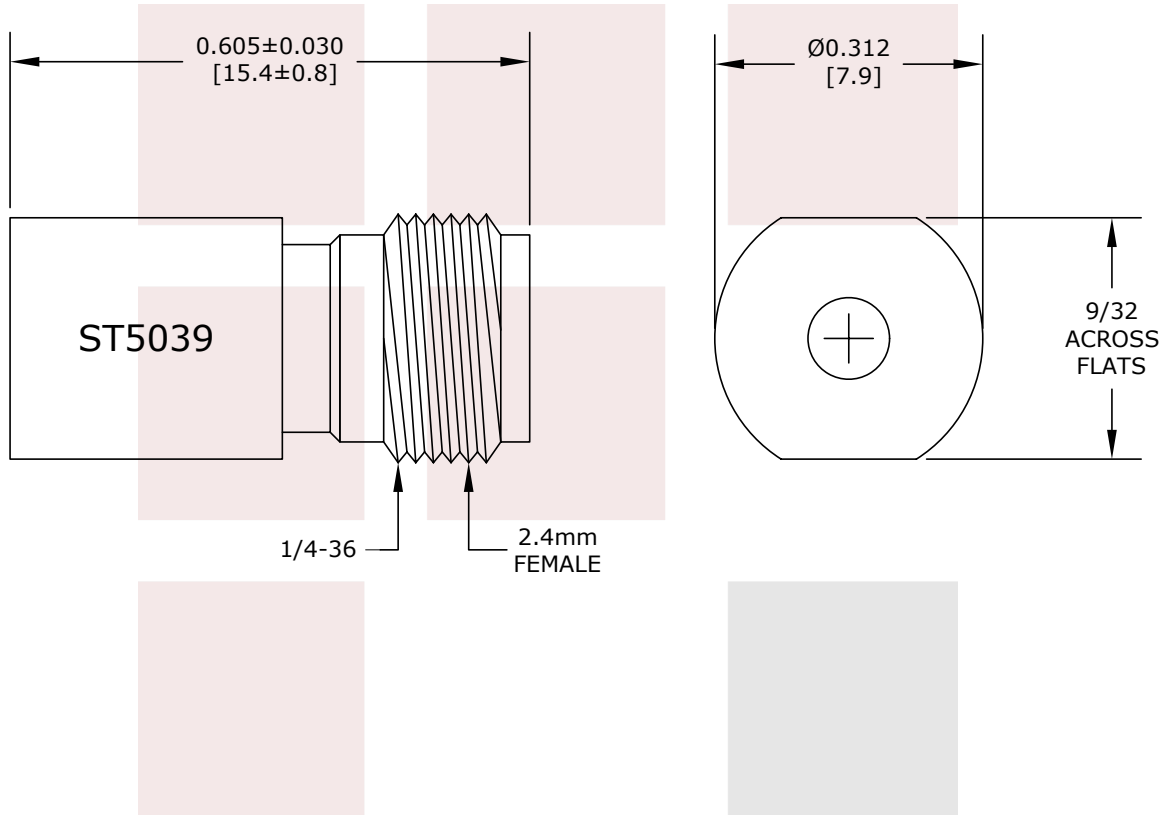


RF Load 1 Watts To 50 GHz Passivated Stainless Steel 2.4mm Female from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [RF Load 1 Watts To 50 GHz Precision 2.4mm Female ST5039](http://www.fairviewmicrowave.com/rf-load-1-watts-50-ghz-precision-2.4mm-female-st5039-p.aspx)

URL: <https://www.fairviewmicrowave.com/rf-load-1-watts-50-ghz-precision-2.4mm-female-st5039-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	$\pm 0.03$
.XX	$\pm 0.010$
.XXX	$\pm 0.005$

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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TITLE RF Load 1 Watts To 50 GHz Passivated Stainless Steel 2.4mm Female		DWG NO <b>ST5039</b>		CAGE CODE <b>3FKR5</b>	
CAD FILE	062916	SHEET	SCALE	N/A	SIZE A 3045