

## RF Load 1 Watts to 50 GHz 2.4mm Male

RF termination (also called RF load or dummy load) FMTR1103 from Fairview Microwave operates from DC to 50 GHz and handles up to 1 Watt (CW). This 2.4mm termination (or load) is a 50 Ohm impedance and has a Male gender. FMTR1103 50 Ohm 2.4mm load termination offers 1.20:1 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 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 Microwave 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:

- 50 Ohm RF Load
- DC to 50 GHz Frequency Range
- VSWR 1.20:1 Max
- Max Power 1 Watt (CW)
- 2.4mm 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  |     | 50    | GHz   |
| Impedance        |     | 50  |       | Ohms  |
| VSWR             |     |     | 1.2:1 |       |
| Input Power (CW) |     |     | 1     | Watt  |

### Mechanical Specifications

|             |  |                    |
|-------------|--|--------------------|
| <b>Size</b> |  |                    |
| Length      |  | 0.77 in [19.56 mm] |
| Width       |  | 0.31 in [7.87 mm]  |

#### Configuration

|            |            |
|------------|------------|
| Connector  | 2.4mm Male |
| Hex Size   | 5/16 inch  |
| Durability | 500 Cycles |

### Material Specifications

| Description         | Material                   | Plating |
|---------------------|----------------------------|---------|
| Connector 1 Contact | Beryllium Copper           | Gold    |
| Body                | Passivated Stainless Steel |         |
| Coupling Nut        | Passivated Stainless Steel |         |

Mechanical Specification Notes:  
Interface: MIL-STD-348B

### Environmental Specifications

|                    |                   |
|--------------------|-------------------|
| <b>Temperature</b> |                   |
| Operating Range    | -40 to +105 deg C |

Fairview Microwave  
301 Leora Ln., Suite 100  
Lewisville, TX 75056  
Tel: 1-800-715-4396 / (972) 649-6678  
Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

Humidity  
Thermal Shock  
Salt Spray

MIL-STD-202, Method 106  
MIL-STD-202, Method 107, Condition B  
MIL-STD-202, Method 101, Condition B

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

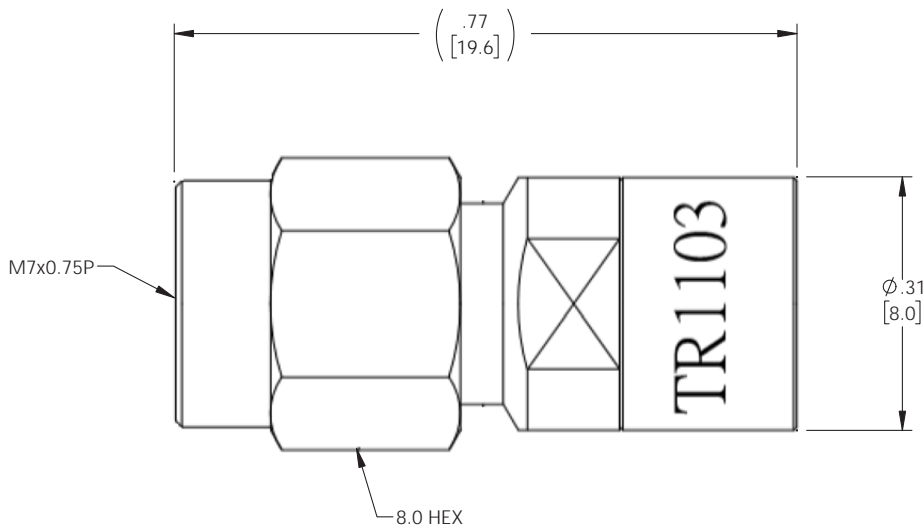
RF Load 1 Watts to 50 GHz 2.4mm Male from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [RF Load 1 Watts to 50 GHz 2.4mm Male FMTR1103](#)

URL: <https://www.fairviewmicrowave.com/rf-load-1-watts-50-ghz-2.4mm-male-fmtr1103-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.

| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 01/05/2021 | SPONG    |



THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

TITLE  
RF Load 1 Watts to 50 GHz 2.4mm Male

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

| TOLERANCES:         |                  | CABLE LENGTH (L) TOLERANCES: |                 |
|---------------------|------------------|------------------------------|-----------------|
| .X = ± 2 [5.08]     | FRACTIONS ± 1/32 | L ≤ 12 [305]                 | = +1 [25] / -0  |
| .XX = ± 0.02 [51]   | ANGLES ± 1°      | 12 [305] < L ≤ 60 [1524]     | = +2 [51] / -0  |
| .XXX = ± 0.005 [13] |                  | 60 [1524] < L ≤ 120 [3048]   | = +4 [102] / -0 |
|                     |                  | 120 [3048] < L ≤ 300 [7620]  | = +6 [152] / -0 |
|                     |                  | 300 [7620] < L               | = +5%L / -0     |

THIRD-ANGLE PROJECTION  
THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.

SHEET 1 OF 1

| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. |           |            |          |
|--|-----------|------------|----------|
| SIZE   | CAGE CODE | DRAWN BY   | ITEM NO. |
| A  | 3FKR5     | DFRISIELLO | FMTR1103 |

SCALE N/A  
REV A

T-Rev.D