

TNC Female (Jack) Termination (Load) 2 Watts,
DC to 18 GHz with Chain, Stainless Steel



FMTR1172C

Features

- DC to 18 GHz Frequency Range
- VSWR <1.2:1
- Max Power 2 Watt (CW)
- TNC Female Coaxial Interface
- Includes Beaded Chain

Applications

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

Description

Fairview Microwave's FMTR1172C is an RF termination (also called RF load or dummy load) that operates from DC to 18 GHz and handles up to 2 Watt (CW). Our TNC termination/load has a female gender. FMTR1172C TNC load termination offers 1.2:1 VSWR max.

RF load / termination are indispensable components in many RF, microwave and millimeter wave systems where signal reflections from unused ports can potentially damage the device or reduce the signal integrity. By using a terminator on an unused port with a matched load (dummy load), the incident energy will be absorbed with minimal reflection. These termination components are commonly used to terminate devices such as couplers, circulators, and switches. They are also widely used in measurement systems to ensure accurate results. Fairview Microwave offers a huge selection of RF, microwave and millimeter wave terminations up to 65 GHz with excellent performance over the entire operating range and power handling capabilities up to 800 Watt (CW).

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
VSWR, Input			1.2:1	
Input Power (CW)			2	Watts
Derated linearly to 1W @ 165°C				
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Operating Voltage (AC)			500	Vrms

Mechanical Specifications

Size

Length	0.898 in [22.81 mm]
Width	0.433 in [11 mm]
Height	0.433 in [11 mm]
Weight	0.03 lbs [13.61 g]

Configuration

Connector	TNC Female
Mating Torque	4.1 to 6.1 in-lbs [0.46 to 0.69 Nm]



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Material Specifications

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold over nickel
Insulation	Teflon	
Gasket	Silicone	
Connector 1 Body	Stainless Steel	Passivated
Chain	Stainless Steel	

Environmental Specifications

Temperature

Operating Range

-55 to +70 deg C

Ingress Protection (IP) Rating

IP67

Humidity

MIL-STD-202, Method 106

Thermal Shock

MIL-STD-202, Method 107, Condition B

Salt Spray

MIL-STD-202, Method 101, Condition B

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

Plotted and Other Data

Notes:

TNC Female (Jack) Termination (Load) 2 Watts, DC to 18 GHz with Chain, Stainless Steel 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: [TNC Female \(Jack\) Termination \(Load\) 2 Watts, DC to 18 GHz with Chain, Stainless Steel FMTR1172C](#)

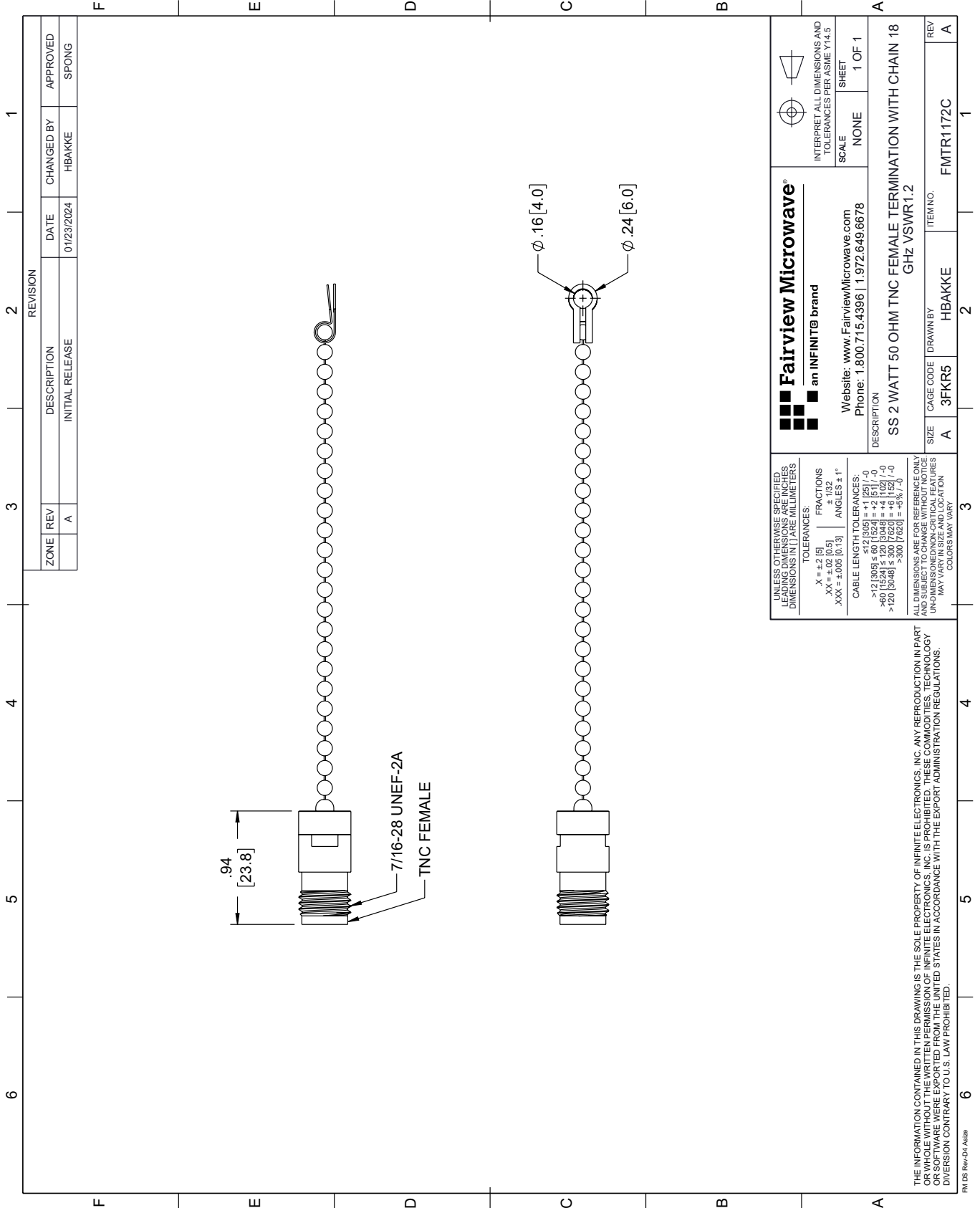
URL: <https://www.fairviewmicrowave.com/rf-load-2-watts-18-ghz-chain-tnc-female-fmtr1172c-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.



FMTR1172C CAD Drawing

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REVISION			
ZONE	REV	DESCRIPTION	DATE
	A	INITIAL RELEASE	01/23/2024
		CHANGED BY	HBAKKE
		APPROVED	SPONG

<p>Fairview Microwave® an INFINIT® brand</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p>
<p>Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678</p>		<p>SCALE: NONE SHEET: 1 OF 1</p>
<p>DESCRIPTION: SS 2 WATT 50 OHM TNC FEMALE TERMINATION WITH CHAIN 18 GHz VSWR1.2</p>		
<p>SIZE: A</p>	<p>CAGE CODE: 3FKR5</p>	<p>ITEM NO.: FMTR1172C</p>

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES:
 .X = ±.2 (5) FRACTIONS ± 1/32
 .XX = ±.02 (0.5) ANGLES ± 1°
 .XXX = ±.005 (0.13)

CABLE LENGTH TOLERANCES:
 ≤ 12 (305) ± .60 (15.24) = ± 2 (51) / -0
 > 12 (305) ≤ 60 (1524) ± 1.20 (30.48) = ± 4 (102) / -0
 > 60 (1524) ≤ 120 (3048) ± 2.40 (60.96) = ± 8 (203) / -0
 > 120 (3048) ± 3.00 (76.20) = ± 8% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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