

TNC Female (Jack) RF Termination (Load),
2 Watt, DC to 12 GHz, 75 Ohm, Brass



FMTR1193

Features

- DC to 12 GHz Frequency Range
- 75 Ohm Impedance
- TNC Female Coaxial Interface
- Max VSWR 1.25:1
- Max Power 2 Watts (CW)

Applications

- 8k UHD TV
- Video Distribution
- Test and Measurement

Description

Fairview Microwave's FMTR1193 is an RF termination (also called RF load or dummy load) that operates from DC to 12 GHz and handles up to 2 Watt (CW). Our TNC termination / load has a female gender. FMTR1193 TNC load termination offers 1.25:1 max VSWR. RF load / terminations are indispensable components in many RF, microwave and millimeter wave systems where signal reflection 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		12	GHz
Impedance		75		Ohms
VSWR, Input			1.25:1	
Input Power (CW)			2	Watts
2W average power from -55°C to +70°C linearly derated to 1W at 165°C				
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Operating Voltage (AC)			500	Vrms

Mechanical Specifications

Size

- Length 1.34 in [34.04 mm]
- Width 0.62 in [15.75 mm]
- Height 0.62 in [15.75 mm]
- Weight 0.2 lbs [90.72 g]

Configuration

- Connector TNC Female
- Mating Torque 4.1 to 6.1 in-lbs [0.46 to 0.69 Nm]
- Durability 500 Cycles

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Material Specifications

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold over Nickel-Phosphorus Alloy over Copper
Insulation	Teflon	
Connector 1 Body	Brass	Tri-Metal over Copper
Coupling Nut	Brass	Tri-Metal over Copper
Housing	Brass	Tri-Metal over Copper

Environmental Specifications

Temperature

Operating Range

-55 to +165 deg C

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) RF Termination (Load), 2 Watt, DC to 12 GHz, 75 Ohm, Brass 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.

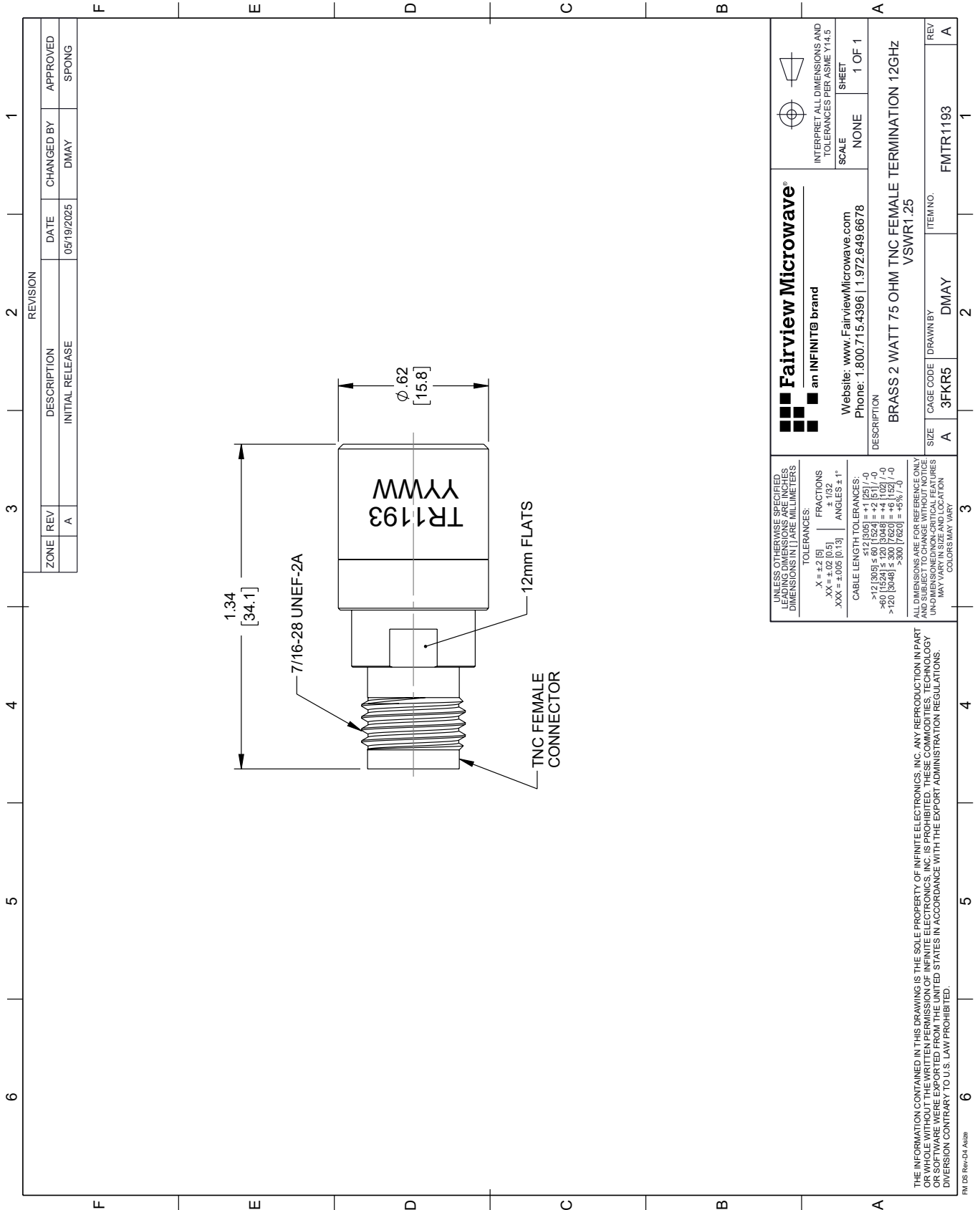
For additional information on this product, please click the following link: [TNC Female \(Jack\) RF Termination \(Load\), 2 Watt, DC to 12 GHz, 75 Ohm, Brass FMTR1193](#)

URL: <https://www.fairviewmicrowave.com/rf-load-2-watts-12-ghz-tnc-female-fmtr1193-p.aspx>

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FMTR1193 CAD Drawing

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REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION	INITIAL RELEASE	
	A			SPONG

 Fairview Microwave® an INFINIT® brand Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678		 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
DESCRIPTION: BRASS 2 WATT 75 OHM TNC FEMALE TERMINATION 12GHZ VSWR1.25		
SIZE	CAGE CODE	ITEM NO.
A	3FKR5	DMAY FMTR1193
REV	A	

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 [1524] = ±.1 [25] / -0
 >60 [1524] ≤ 120 [3048] = ±.1 [25] / -0
 >120 [3048] ≤ 300 [7620] = ±.2 [5] / -0
 >300 [7620] = ±.3 [7.6]

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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FM DS Rev-D4 Alt2b