

N-Type Female (Jack) Termination (Load)
5 Watts, DC to 18 GHz, Stainless Steel



FMTR1175

Features

- DC to 18 GHz Frequency Range
- VSWR <1.2:1
- Max Power 5 Watt (CW)
- N-Type Female Coaxial Interface

Applications

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

Description

Fairview Microwave's FMTR1175 is an RF termination (also called RF load or dummy load) that operates from DC to 18 GHz and handles up to 5 Watt (CW). Our N-Type termination/load has a female gender. FMTR1175 N-Type 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)			5	Watts
Derated linearly to 1.5W @ 165°C				
Dielectric Withstanding Voltage (AC)			2,500	Vrms
Operating Voltage (AC)			1,000	Vrms

Mechanical Specifications

Size

Length	1.587 in [40.31 mm]
Width	0.709 in [18.01 mm]
Height	0.709 in [18.01 mm]
Weight	0.086 lbs [39.01 g]

Configuration

Connector	N Female
Mating Torque	6 to 10 in-lbs [0.68 to 1.13 Nm]

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Material Specifications

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold over nickel
Insulation	Teflon	
Connector 1 Body	Brass	Copper-Tin-Zinc Alloy

Environmental Specifications

Temperature

Operating Range

-55 to +70 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:

N-Type Female (Jack) Termination (Load) 5 Watts, DC to 18 GHz, 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.

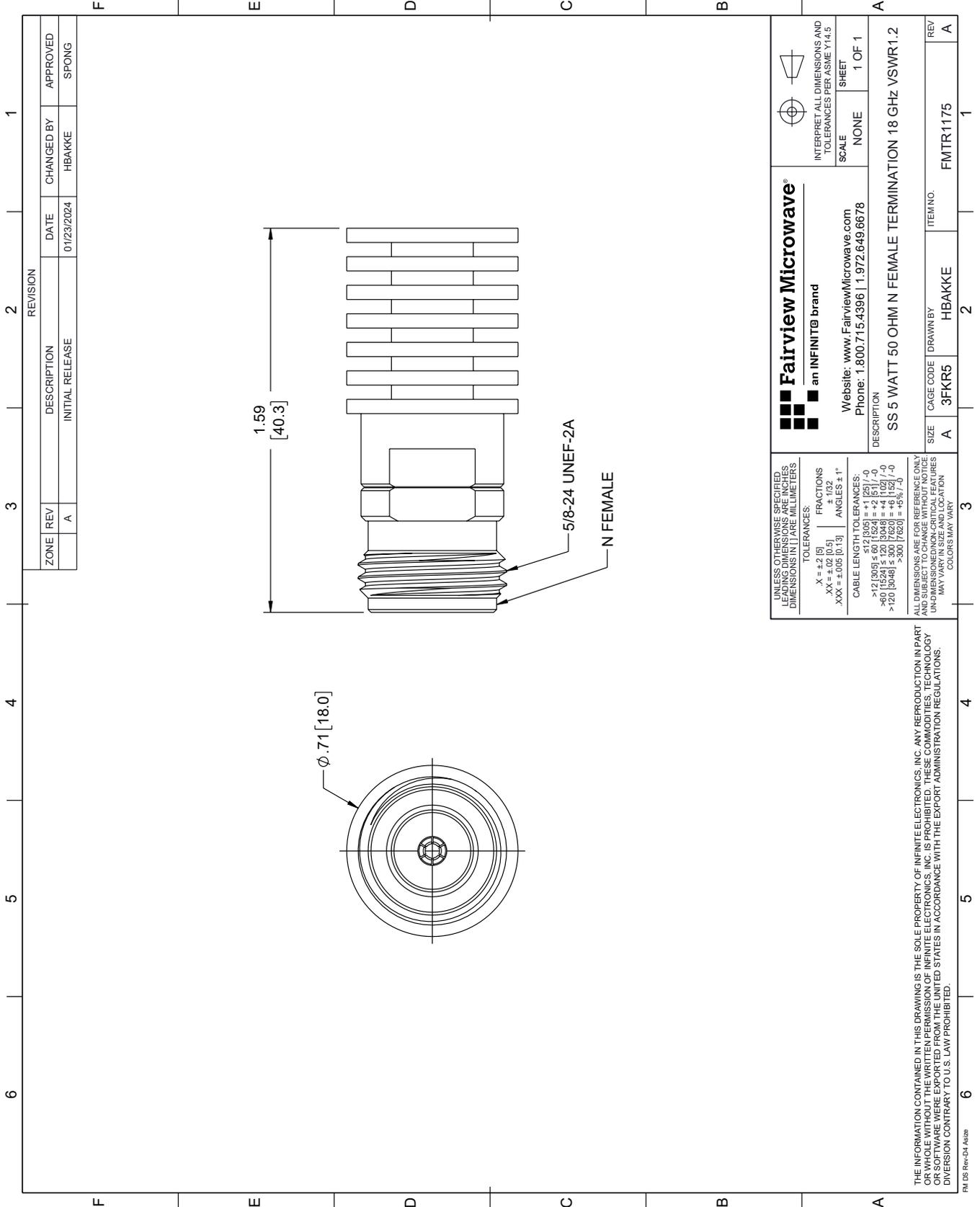
For additional information on this product, please click the following link: [N-Type Female \(Jack\) Termination \(Load\) 5 Watts, DC to 18 GHz, Stainless Steel FMTR1175](#)

URL: <https://www.fairviewmicrowave.com/rf-load-5-watts-18-ghz-n-female-fmtr1175-p.aspx>

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FMTR1175 CAD Drawing

N-Type Female (Jack) Termination (Load) 5 Watts, DC to 18 GHz, Stainless Steel



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

Fairview Microwave®
an INFINIT® brand

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [] ARE 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 [5] / -0
 >12 [305] ≤.60 [15.24] = ±.2 [5] / -0
 >60 [1524] ≤.120 [3048] = ±.4 [10.2] / -0
 >120 [3048] ≤.300 [7620] = ±.8 [20.3] / -0

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

DESCRIPTION: SS 5 WATT 50 OHM N FEMALE TERMINATION 18 GHz VSWR 1.2

SCALE: NONE SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

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FM DS Rev-D4 Alt2b