

SMA Female (Jack) Termination (Load)
2 Watts, DC to 18 GHz, Stainless Steel



FMTR1174C

Features

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

Applications

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

Description

Fairview Microwave's FMTR1174C 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 SMA termination/load has a female gender. FMTR1174C SMA 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

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 6	6 - 12.4	12.4 - 18			GHz
VSWR, Input Typ	1.1:1	1.15:1	1.2:1			

Mechanical Specifications

Size

Length	0.559 in [14.2 mm]
Width	0.315 in [8 mm]
Height	0.315 in [8 mm]
Weight	0.01 lbs [4.54 g]

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Configuration

Connector	SMA Female
Mating Torque	7 to 9.5 in-lbs [0.79 to 1.07 Nm]

Material Specifications

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

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:

SMA Female (Jack) Termination (Load) 2 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.

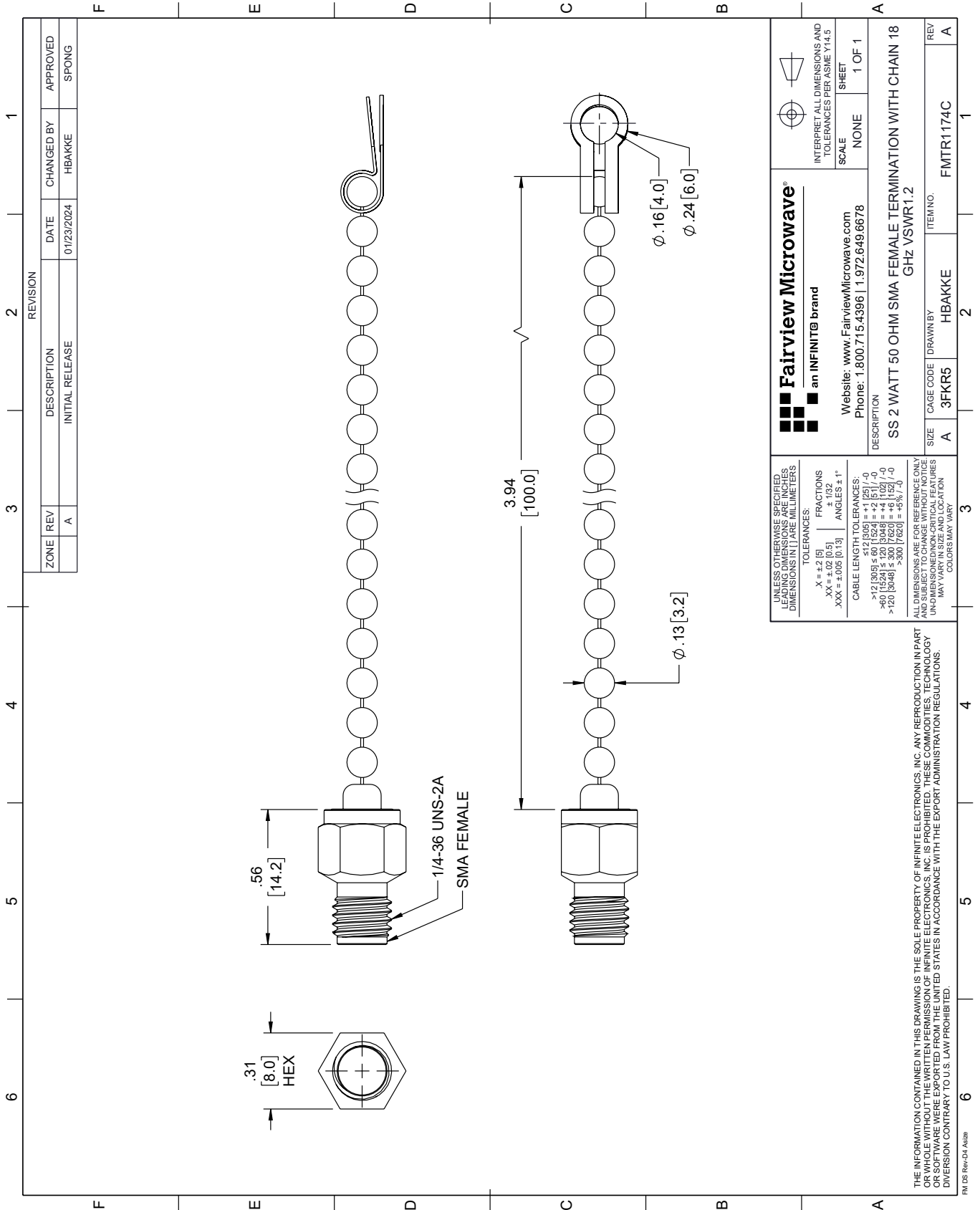
For additional information on this product, please click the following link: [SMA Female \(Jack\) Termination \(Load\) 2 Watts, DC to 18 GHz, Stainless Steel FMTR1174C](#)

URL: <https://www.fairviewmicrowave.com/rf-load-2-watts-18-ghz-chain-sma-female-fmtr1174c-p.aspx>

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FMTR1174C CAD Drawing

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

<p>Fairview Microwave® an INFINIT® brand</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p>
Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678		SCALE: NONE SHEET: 1 OF 1
DESCRIPTION: SS 2 WATT 50 OHM SMA FEMALE TERMINATION WITH CHAIN 18 GHz VSWR1.2		
SIZE: A	CAGE CODE: 3FKR5	ITEM NO: FMTR1174C
DRAWN BY: HBAKKE		REV: A

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FM DS Rev-D4 Alt3