

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



FMTR1174

Features

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

Applications

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

Description

Fairview Microwave's FMTR1174 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. FMTR1174 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	
Connector 1 Body	Stainless Steel	Passivated

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:

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 FMTR1174](#)

URL: <https://www.fairviewmicrowave.com/rf-load-2-watts-18-ghz-sma-female-fmtr1174-p.aspx>

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FMTR1174 CAD Drawing

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