

1.0 mm Male (Plug) Termination (Load) 0.5 Watts Up to 110 GHz Passivated Stainless Steel, 1.8 VSWR

Fairview Microwave's FMTR1123 is an RF termination (also called RF load or dummy load) that operates from DC to 110 GHz and handles up to 0.5 Watt (CW). Our 1.0 mm termination / load has a male gender. FMTR1123 1.0 mm load termination offers 2.5:1 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 110 GHz with excellent performance over the entire operating range and power handling capabilities up to 800 Watt (CW).

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		110	GHz
Impedance		50		Ohms
VSWR			2.5:1	
Input Power (CW)			0.5	Watts
Derated linearly to 10% @ 100°C from 25°C				

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	DC-26.5	26.5-40	40-65	65-90	90-110	GHz
VSWR, Max	1.35:1	1.55:1	1.65:1	2.1:1	2.5:1	

Mechanical Specifications

Size

Length	0.5 in [12.7 mm]
Width	0.66 in [16.76 mm]
Height	0.46 in [11.68 mm]
Weight	0.04 lbs [18.14 g]
Package Type	Connectorized

Configuration

Connector	1.0mm Male
Termination Design	RF Load



Features:

- DC to 110 GHz Frequency Range
- 50 Ohm Impedance
- 1.0 mm Male Coaxial Interface
- VSWR 2.5:1 Max
- Max Power 0.5 Watts (CW)

Applications:

- Wireless
- Video Signal Transmission
- Radar Systems
- Test and Measurement
- Commercial and Military Communication
- Avionics

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Material Specifications

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold
Insulation	Teflon	
Body	Stainless Steel	Passivated Stainless Steel
Housing	Stainless Steel	Passivated Stainless Steel

Environmental Specifications
Temperature

Operating Range -55 to +100 deg C
 Storage Range -55 to +100 deg C

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

Plotted and Other Data

Notes:

1.0 mm Male (Plug) Termination (Load) 0.5 Watts Up to 110 GHz Passivated Stainless Steel, 1.8 VSWR 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: [1.0 mm Male \(Plug\) Termination \(Load\) 0.5 Watts Up to 110 GHz Passivated Stainless Steel, 1.8 VSWR FMTR1123](#)

URL: <https://www.fairviewmicrowave.com/rf-load-0.5-watts-110-ghz-1.0mm-male-fmtr1123-p.aspx>

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