

TNC Male (Plug) Termination (Load) 2 Watt DC to 18 GHz, Passivated Stainless Steel, 1.2:1 VSWR



FMTR6089A

Features

- DC to 18 GHz Frequency Range
- 50 Ohm Impedance
- TNC Male Coaxial Interface
- Max VSWR 1.2:1
- Max Power 2 Watts (CW)

Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems

Description

Fairview Microwave's FMTR6089A 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 TNC termination / load has a male gender. FMTR6089A TNC load termination offers 1.2:1 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. L-com 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
2W average power from -55°C to 70°C linearly derated to 1 Watt at 165°C				
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Operating Voltage (AC)			500	Vrms

Mechanical Specifications

Size

Length	0.76 in [19.3 mm]
Width	0.55 in [13.97 mm]
Height	0.55 in [13.97 mm]
Weight	0.1 lbs [45.36 g]

Configuration

Connector	TNC Male
Connector Specification	MIL-STD-348A
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
Insulation	Teflon	
Gasket	Silicone	
Connector 1 Body	Passivated Stainless Steel	
Coupling Nut	Brass	Tri-Metal over Copper
Housing	Passivated Stainless Steel	

Environmental Specifications

Temperature

Operating Range

-65 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 Male (Plug) Termination (Load) 2 Watt DC to 18 GHz, Passivated Stainless Steel, 1.2:1 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: [TNC Male \(Plug\) Termination \(Load\) 2 Watt DC to 18 GHz, Passivated Stainless Steel, 1.2:1 VSWR FMTR6089A](#)

URL: <https://www.fairviewmicrowave.com/rf-load-2-watts-18-ghz-tnc-male-fmtr6089a-p.aspx>

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FMTR6089A CAD Drawing

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