

SMA Male (Plug) Termination (Load) for Cryogenic Application 2 Watt, DC to 18 GHz With Stainless Steel Body



FMTR1200

Features

- Cryogenic Operating Temperature Range -265.15 to 125 deg °C
- DC to 18 GHz Range
- 2 Watt Average Input Power
- VSWR <1.2:1
- SMA Male Coaxial Interface

Applications

- Quantum Computing
- Precision Measurements
- Instrumentation
- Prototyping and Characterization

Description

Fairview Microwave's FMTR1200 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 male gender. FMTR1200 SMA load termination offers 1.2:1 VSWR max. The FMTR1200 termination is specially designed and manufactured for cryogenic applications with RF performances guaranteed at 4 kelvin. 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		1.1:1	1.2:1	
Input Power (CW)			2	Watts
Power derates linearly from 45°C to <10°C @ 125°C				
Input Power (Peak)			500	Watts
5 µSec PW, <1% duty cycle				

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 4	4 - 8	8 - 12.4	12.4 - 18		GHz
VSWR, Input Max	1.05:1	1.1:1	1.15:1	1.2:1		

Mechanical Specifications

Size

Length	0.52 in [13.21 mm]
Width	0.31 in [7.87 mm]
Height	0.31 in [7.87 mm]
Weight	0.01 lbs [4.54 g]

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Configuration	
Connector	SMA Male

Material Specifications

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold
Insulation	Teflon	
Outer Conductor	Passivated Stainless Steel	
Coupling Nut	Passivated Stainless Steel	
Housing	Passivated Stainless Steel	

Environmental Specifications

Temperature	
Operating Range	-269.15 to +125 deg C
Storage Range	-269.15 to +150 deg C

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

Plotted and Other Data

Notes:

SMA Male (Plug) Termination (Load) for Cryogenic Application 2 Watt, DC to 18 GHz With Stainless Steel Body 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 Male \(Plug\) Termination \(Load\) for Cryogenic Application 2 Watt, DC to 18 GHz With Stainless Steel Body FMTR1200](#)

URL: <https://www.fairviewmicrowave.com/rf-loand-2-watts-18-ghz-sma-male-fmtr1200-p.aspx>

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