

WR-51 Waveguide Load Rated For 2 Watts,
Operating from 14.5 GHz to 22 GHz, Constructed
from Copper and Equipped with a FBP180 Flange



FMW51TR001

Features

- WR-51 Waveguide
- Operating Frequency Range from 14.5 GHz to 22 GHz
- Low VSWR of 1.03:1 Max
- 2 Watts (CW) Average Power Handling
- UG Cover Flange
- Excellent Impedance Matching

Applications

- Test & Measurement
- RF & Microwave Labs
- Radar Systems
- Satellite Communications (SATCOM)
- Aerospace & Defense

Description

The FMW51TR001 is a WR-51 waveguide termination/load designed to provide a precision matched termination over the 14.5 to 22 GHz frequency range. It features a maximum VSWR of 1.03:1, minimizing reflections and ensuring accurate RF system performance. Constructed from painted Brass with a UG cover flange, this waveguide termination offers a lightweight, rugged solution suitable for laboratory, commercial, industrial, aerospace, and defense microwave applications. It is ideal for terminating unused waveguide ports, absorbing incident RF energy, and improving system impedance matching. As part of Fairview Microwave's extensive waveguide component portfolio, this termination is in stock and available for same-day shipment.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	14.5		22	GHz
VSWR			1.03:1	
Input Power (CW)			2	Watts
Input Power (Peak)			10	kWatts

Mechanical Specifications

Size

Length	2.95 in [74.93 mm]
Width/Dia.	1.31 in [33.27 mm]
Height	1.31 in [33.27 mm]
Weight	0.22 lbs [99.79 g]

Description	Flange	Waveguide
Designation		WR-51
Type	UG Cover	
Material		Brass Copper
Plating		Passivated
Finish		Grey Paint

Environmental Specifications

Temperature

Operating Range	-40 to +70 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

WR-51 Waveguide Load Rated For 2 Watts, Operating from 14.5 GHz to 22 GHz, Constructed from Copper and Equipped with a FBP180 Flange 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: [WR-51 Waveguide Load Rated For 2 Watts, Operating from 14.5 GHz to 22 GHz, Constructed from Copper and Equipped with a FBP180 Flange FMW51TR001](#)

URL: <https://www.fairviewmicrowave.com/wr-51-waveguide-termination-2-watts-14.5-22-ghz-fmw51tr001>

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FMW51TR001 CAD Drawing

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