

WR-42 Waveguide Load Rated For 1 Watt, Operating from 17.6 GHz to 26.7 GHz, Constructed from Copper and Equipped with a FBP220 Flange



FMW42TR001

Features

- WR-42 Waveguide
- Operating Frequency Range from 17.6 GHz to 26.7 GHz
- Low VSWR of 1.03:1 Max
- 1 Watt (CW) Average Power Handling
- FBP220 Cover Flange
- Excellent Impedance Matching

Applications

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

Description

The FMW42TR001 is a WR-42 waveguide termination/load designed to provide a precision matched termination over the 17.6 to 26.7 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 FBP220 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	17.6		26.7	GHz
VSWR			1.03:1	
Input Power (CW)			1	Watt
Input Power (Peak)			2	kWatts

Mechanical Specifications

Size

Length	2.56 in [65.02 mm]
Width/Dia.	0.88 in [22.35 mm]
Height	0.88 in [22.35 mm]
Weight	0.5 lbs [226.8 g]

Description	Flange	Waveguide
Designation		WR-42
Type	FBP220	
Material		Brass Copper
Plating		Gold
Finish		Gold

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-42 Waveguide Load Rated For 1 Watt, Operating from 17.6 GHz to 26.7 GHz, Constructed from Copper and Equipped with a FBP220 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-42 Waveguide Load Rated For 1 Watt, Operating from 17.6 GHz to 26.7 GHz, Constructed from Copper and Equipped with a FBP220 Flange FMW42TR001](#)

URL: <https://www.fairviewmicrowave.com/wr-42-waveguide-termination-1-watts-17.6-26.7-ghz-fmw42tr001>

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FMW42TR001 CAD Drawing

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