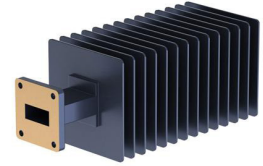


WR-90 Waveguide Load Rated For 100 Watts,
Operating from 8.2 GHz to 12.5 GHz, Constructed from
Aluminum and Equipped with a FBP100 Flange



FMW90TR001

Features

- WR-90 Waveguide
- Operating Frequency Range from 8.2 GHz to 12.5 GHz
- Low VSWR of 1.25:1 Max
- 100 Watts (CW) Average Power Handling
- FBP100 Cover Flange
- Excellent Impedance Matching

Applications

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

Description

The FMW90TR001 is a WR-90 waveguide termination/load designed to provide a precision matched termination over the 8.2 to 12.5 GHz frequency range. It features a maximum VSWR of 1.25:1, minimizing reflections and ensuring accurate RF system performance. Constructed from painted aluminum with a FBP100 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	8.2		12.5	GHz
VSWR			1.25:1	
Input Power (CW)			100	Watts
Input Power (Peak)			50	kWatts

Mechanical Specifications

Size

Length	7.09 in [180.09 mm]
Width/Dia.	2.76 in [70.1 mm]
Height	2.76 in [70.1 mm]
Weight	0.87 lbs [394.63 g]

Description	Flange	Waveguide
Designation		WR-90
Type	FBP100	
Material		Aluminum
Plating		Chromate Conversion
Finish		Grey Paint

Environmental Specifications

Temperature

Operating Range	-40 to +70 deg C
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FMW90TR001

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

Plotted and Other Data

WR-90 Waveguide Load Rated For 100 Watts, Operating from 8.2 GHz to 12.5 GHz, Constructed from Aluminum and Equipped with a FBP100 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-90 Waveguide Load Rated For 100 Watts, Operating from 8.2 GHz to 12.5 GHz, Constructed from Aluminum and Equipped with a FBP100 Flange FMW90TR001](#)

URL: <https://www.fairviewmicrowave.com/wr-90-waveguide-termination-100-watts-8.2-12.5-ghz-fmw90tr001>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

