

WR-229 Waveguide to Coax Adapter with a CPR-229F flange and N Type Female Connector, Operating from 3.22 GHz to 4.9 GHz



FMWCA1124

Features

- WR-229 Waveguide
- Operating Frequency Range from 3.22 GHz to 4.9 GHz
- N Type Coaxial Connector
- Low Insertion Loss 0.2 dB
- Low VSWR 1.25:1
- Excellent Waveguide-to-Coax Transition
- CPR-229F Waveguide Flange
- Durable Aluminum Material Construction
- Reliable RF Performance

Applications

- Test & Measurement
- RF & Microwave Laboratories
- Radar Systems
- Satellite Communications (SATCOM)
- Aerospace & Defense
- Microwave Radio Systems
- Telecom Infrastructure
- RF System Integration
- Production Test Systems
- Research & Development

Description

The FMWCA1124 is a WR-229 waveguide to coax adapter designed to provide an efficient transition between rectangular waveguide and coaxial transmission lines over the 3.22 to 4.9 GHz frequency range. Engineered for low insertion loss and excellent impedance matching, this adapter delivers reliable microwave signal transfer while minimizing reflections. Constructed from Aluminum material and featuring a CPR-229F waveguide flange with a N Type coaxial connector, it offers precision mechanical alignment and rugged performance for commercial, industrial, aerospace, defense, and laboratory applications. Ideal for integrating waveguide and coaxial components, this adapter is part of Fairview Microwave's comprehensive waveguide product portfolio and is stocked for same-day shipment.

Configuration

Waveguide Size	WR-229
Flange	CPR-229F
RF Connector	N Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	3.22		4.9	GHz
VSWR			1.25:1	
Insertion Loss			0.2	dB
Input Power (CW)			100	Watts

Mechanical Specifications

Size	
Length	3.88 in [98.55 mm]
Width	3.21 in [81.53 mm]
Height	2.18 in [55.37 mm]
Weight	0.7 lbs [317.51 g]

RF Connector	
Connector Type	N Female

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Waveguide Interface

Waveguide Type	WR-229
Flange Type	CPR-229F
Body Material and Plating	Aluminum, Chromate Conversion

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

Notes:

- Values at +25 °C, sea level unless stated otherwise

Typical Performance Data

WR-229 Waveguide to Coax Adapter with a CPR-229F flange and N Type Female Connector, Operating from 3.22 GHz to 4.9 GHz 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-229 Waveguide to Coax Adapter with a CPR-229F flange and N Type Female Connector, Operating from 3.22 GHz to 4.9 GHz FMWCA1124](#)

URL: <https://www.fairviewmicrowave.com/wr229-type-n-female-waveguide-coax-adapter-cpr-229f-fmwca1124>

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FMWCA1124 CAD Drawing

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