



WR-159 Waveguide 30 dB Crossguide Coupler, CPR-159F
Flange, N Female Coupled Port, 4.64 GHz to 7.05 GHz, Aluminum

Waveguide Couplers Technical Data Sheet

PEWCP1082-30

The PEWCP1082-30 is a 30 dB WR-159 three port crossguide coupler with integrated N Female connector for the coupled port. This coupler can be mounted directly into the waveguide signal path, connected via coax to allow signal sampling /monitoring. The coupler has a typical VSWR of 1.1:1 and are made of Aluminum with CPR-159F flanges. The PEWCP1082-30 is part of a family of cross guide couplers offered by Pasternack with coupling values ranging from 20 to 50 dB.

Features

- Three Port Crossguide Waveguide Coupler
- 30±1.5 dB Nominal Coupling Level
- Integrated N Female Connector for the coupled port
- 4.64 GHz to 7.05 GHz Frequency Range
- Low VSWR < 1.25:1

Applications

- Test Benches
- Radar
- Satellite
- Microwave Radio
- Attenuation Measurements
- Power Measurements
- Source Leveling

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4.64		7.05	GHz
Coupler				
Nominal Coupling Level		30		dB
Coupling Accuracy			±1.5	dB
Directivity	18			dB
Insertion Loss		0.1		dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.25:1	
Input Power (CW)			1.2	kWatts
Input Power, Peak			500	kWatts

Mechanical Specifications

Size

Length	6.693 in [170 mm]
Width	4.724 in [119.99 mm]
Height	3.53 in [89.66 mm]
Weight	1.102 lbs [499.86 g]

Interface

Waveguide Size	WR-159
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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-159 Waveguide 30 dB Crossguide Coupler, CPR-159F Flange, N Female Coupled Port, 4.64 GHz to 7.05 GHz, Aluminum PEWCP1082-30](#)



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Flange Type
RF Connector Type

CPR-159F
N Female

Coupler Body Material and Plating

Aluminum, Chromate

Environmental Specifications

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

Plotted and Other Data

Notes:

WR-159 Waveguide 30 dB Crossguide Coupler, CPR-159F Flange, N Female Coupled Port, 4.64 GHz to 7.05 GHz, Aluminum from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: <https://www.pasternack.com/30-db-wr-159-waveguide-crossguide-coupler-pewcp1082-30-p.aspx>

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