

WRD-650 Double Ridge Waveguide 40 dB Broadwall Coupler, SMA Female Coupled Port, 6.5 GHz to 18 GHz, Brass

Waveguide Couplers Technical Data Sheet

PEWRD650CP01-40

The PEWRD650CP01-40 is a WRD-650 Directional Broadwall double ridge waveguide coupler with SMA female coupled port that operates in the frequency range of 6.5 to 18 GHz. This Waveguide component has a maximum VSWR of 1.5:1. These designs are made of painted copper alloy and incorporate a broad wall configuration that result in a mid-band nominal coupling value of 10, 20, 30, 40 or 50 dB. Common applications for this component would be where power measurements are required within a system for measuring/sampling power or frequency monitoring with minimal signal loss to the main transmission line. Pasternack offers a complete family of waveguide Crossguide and Broadwall couplers that are in-stock and ship same day.

Features

- Three Port Broadwall Waveguide Coupler
- 40±2 dB Nominal Coupling Level
- Integrated SMA Female Connector coupled port
- 6.5 GHz to 18 GHz Frequency Range
- Main Line VSWR < 1.25:1
- Max Power 400W (CW)

Applications

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

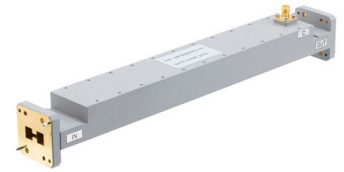
Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	6.5		18	GHz
Impedance		50		Ohms
Coupler				
Nominal Coupling Level		40		dB
Directivity	20			dB
Insertion Loss			0.3	dB
Main Line VSWR			1.25:1	
Secondary Line VSWR			1.5:1	
Coupling Flatness			±2	dB
Input Power (CW)			400	Watts
Input Power, Peak			3	kWatts

Mechanical Specifications

Size	
Length	10.63 in [270 mm]
Width	1.38 in [35.05 mm]
Height	1.38 in [35.05 mm]
Weight	2.5 lbs [1.13 kg]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WRD-650 Double Ridge Waveguide 40 dB Broadwall Coupler, SMA Female Coupled Port, 6.5 GHz to 18 GHz, Brass PEWRD650CP01-40](#)



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Interface

Waveguide Size	WRD-650
Flange Type	Cover
RF Connector Type	SMA Female
Coupler Body Material and Plating	Brass, Gray

Environmental Specifications

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

Plotted and Other Data

Notes:

WRD-650 Double Ridge Waveguide 40 dB Broadwall Coupler, SMA Female Coupled Port, 6.5 GHz to 18 GHz, Brass 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/wrd650-waveguide-40db-broadwall-coupler-18ghz-pewrd650cp01-40-p.aspx>

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