

WRD-750 Double Ridge Waveguide 30 dB Broadwall Coupler,
N Female Coupled Port, 7.5 GHz to 18 GHz, Brass

Waveguide Couplers Technical Data Sheet

PEWRD750CP02-30

The PEWRD750CP02-30 is a WRD-750 Directional Broadwall double ridge waveguide coupler with N female coupled port that operates in the frequency range of 7.5 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
- 30±2 dB Nominal Coupling Level
- Integrated N Female Connector coupled port
- 7.5 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

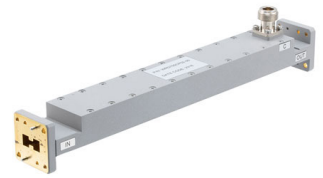
Description	Minimum	Typical	Maximum	Units
Frequency Range	7.5		18	GHz
Impedance		50		Ohms
Coupler				
Nominal Coupling Level		30		dB
Directivity	20			dB
Insertion Loss			0.3	dB
Main Line VSWR			1.25:1	
Secondary Line VSWR			1.5:1	
Coupling Flatness			±2	dB
Input Power (CW)			400	Watts
Input Power, Peak			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	2.37 lbs [1.08 kg]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WRD-750 Double Ridge Waveguide 30 dB Broadwall Coupler, N Female Coupled Port, 7.5 GHz to 18 GHz, Brass PEWRD750CP02-30](#)



WRD-750 Double Ridge Waveguide 30 dB Broadwall Coupler,
N Female Coupled Port, 7.5 GHz to 18 GHz, Brass

Waveguide Couplers Technical Data Sheet

PEWRD750CP02-30

Interface

Waveguide Size

WRD-750

Flange Type

Cover

RF Connector Type

N Female

Coupler Body Material and Plating

Brass, Gray

Environmental Specifications

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

Plotted and Other Data

Notes:

WRD-750 Double Ridge Waveguide 30 dB Broadwall Coupler, N Female Coupled Port, 7.5 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.

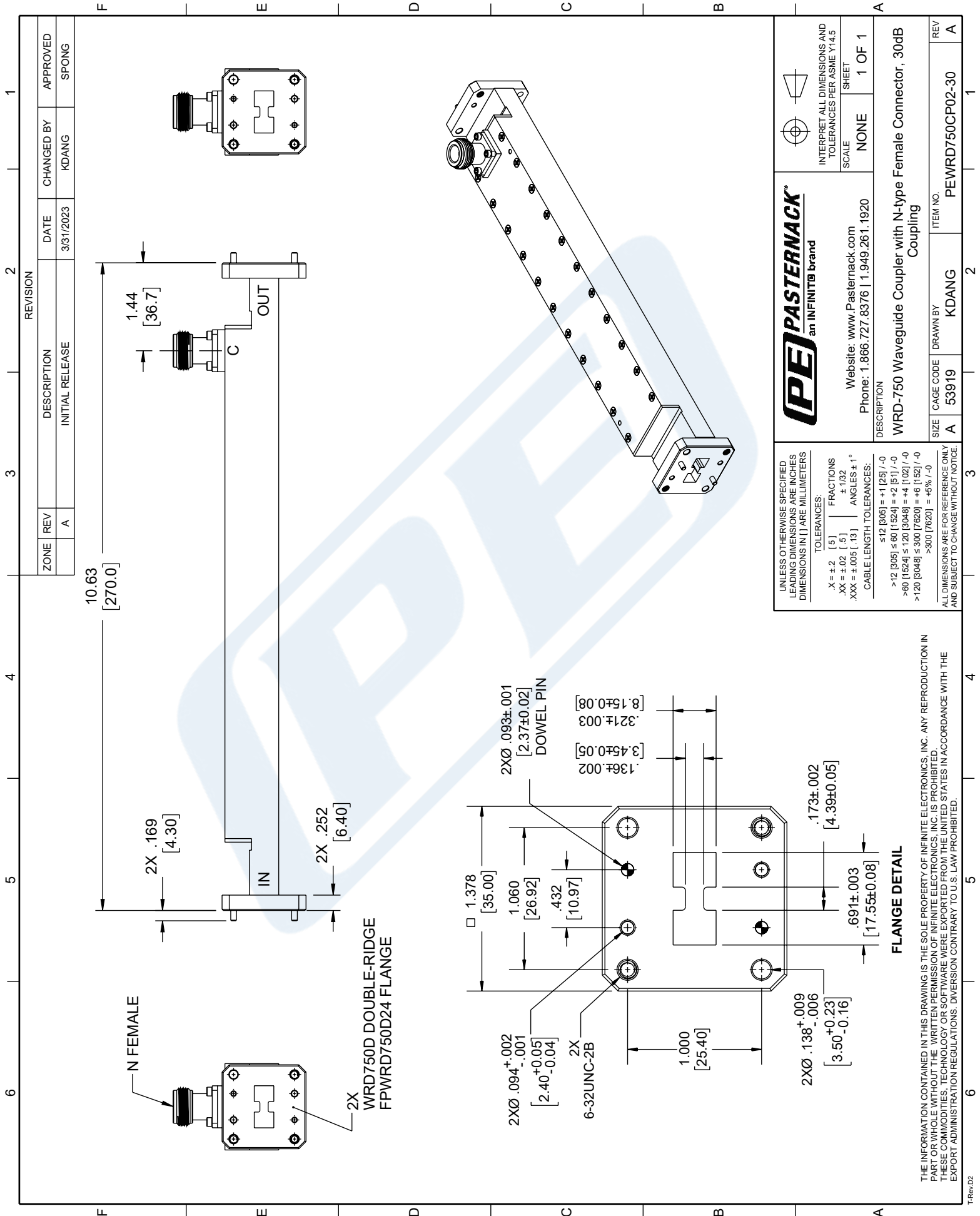
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WRD-750 Double Ridge Waveguide 30 dB Broadwall Coupler, N Female Coupled Port, 7.5 GHz to 18 GHz, Brass PEWRD750CP02-30](#)

URL: <https://www.pasternack.com/wrd750-waveguide-30db-broadwall-coupler-18ghz-pewrd750cp02-30-p.aspx>

The information contained in 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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PEWRD750CP02-30 CAD Drawing

WRD-750 Double Ridge Waveguide 30 dB Broadwall Coupler,
N Female Coupled Port, 7.5 GHz to 18 GHz, Brass



PASTERNAK an INFINITI® brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		DESCRIPTION WRD-750 Waveguide Coupler with N-type Female Connector, 30dB Coupling	
SIZE A	CAGE CODE 53919	DRAWN BY KDANG	ITEM NO. PEWRD750CP02-30
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		TOLERANCES: X = ±.2 [5] FRACTIONS .XX = ±.02 [.5] ANGLES ± 1° .XXX = ±.005 [.13] CABLE LENGTH TOLERANCES: ≤12 [305] = ±.1 [25] / -0 >12 [305] ≤ 60 [1524] = ±.2 [5] / -0 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0 >120 [3048] ≤ 300 [7620] = ±.6 [152] / -0 >300 [7620] = ±.5% / -0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.			

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITI ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITI ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.