



WRD-650 UG Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 6.5 GHz to 18 GHz in Copper Alloy

Waveguide to Coax Adapters Technical Data Sheet

PEWCA1112

Features

- 6.5 GHz to 18 GHz Frequency Range
- WRD-650 Double Ridge Waveguide Interface
- UG Square Cover Flange
- SMA Female RF Interface
- Comprehensive waveguide offering also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

Applications

- Test Benches
- Radar
- Satellite
- Microwave Radio Systems
- Military and Space
- Communication Systems

Description

The PEWCA1112 is a right angle double ridge waveguide to coaxial adapter operating at a frequency range of 6.5 GHz to 18 GHz. This adapter offers a WRD-650 waveguide interface size coupled with a precision tolerance Square Cover flange. The PEWCA1112 is constructed of copper alloy and painted gray to ensure durability. The coaxial connector offered by this adapter uses an SMA Female connector.

Configuration

Waveguide Size	WRD-650
Flange	UG Square Cover
RF Connector	SMA Female
Impedance	50 Ohms
Body Geometry	Right Angle

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	6.5		18	GHz
VSWR		1.5:1		
Insertion Loss			0.5	dB
Input Power (CW)			50	Watts

Mechanical Specifications

Weight	0.5 lbs [226.8 g]
RF Connector	
Connector Type	SMA Female
Waveguide Interface	
Waveguide Type	WRD-650
Flange Type	Square Cover
Flange Designation	UG

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WRD-650 UG Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 6.5 GHz to 18 GHz in Copper Alloy PEWCA1112](#)



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Body Material and Plating

Copper Alloy

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

Plotted and Other Data

Notes:

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

WRD-650 UG Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 6.5 GHz to 18 GHz in Copper Alloy 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-ug-square-flange-to-sma-female-waveguide-coax-adapter-18-ghz-pewca1112-p.aspx>

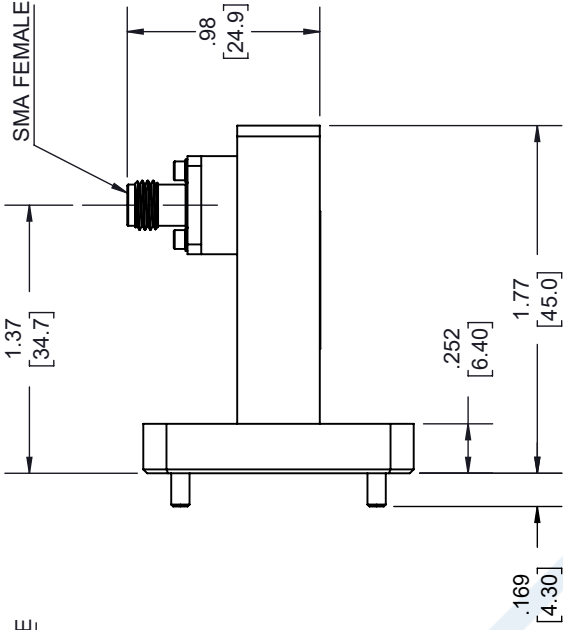
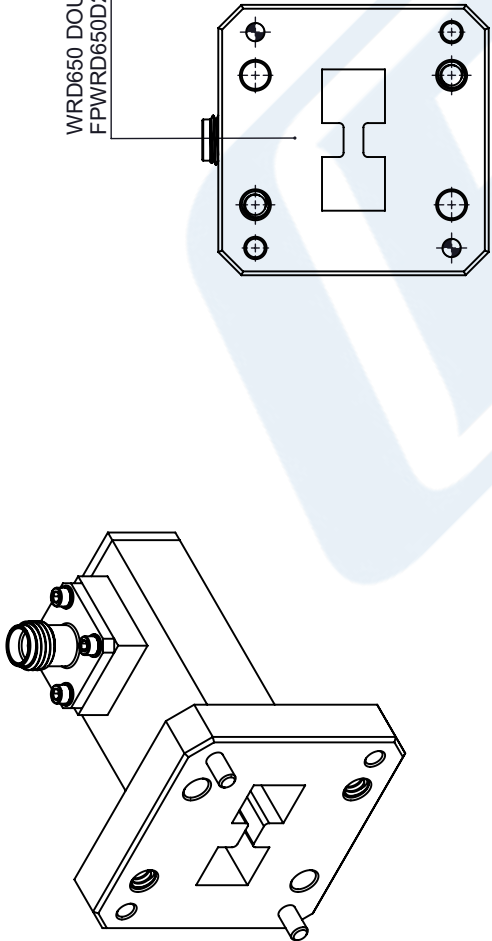
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

PEWCA1112 CAD Drawing

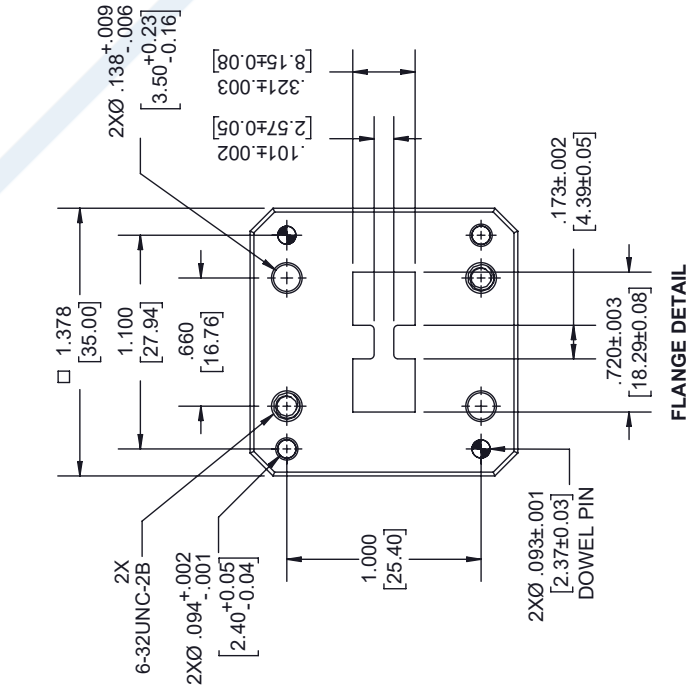
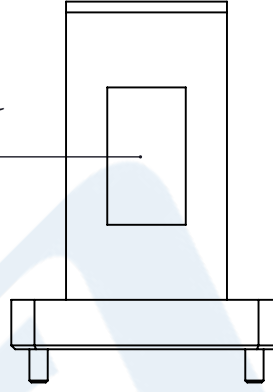
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/5/2020	S.PONG

WRD650 DOUBLE-RIDGE
FPWRD650D28 COVER FLANGE



LABEL PER ILS-100-09
(SEE NOTE 1)



FLANGE DETAIL

NOTES:

- LABEL PER ILS-100-09. FOR INTERNAL REFERENCE ONLY.
LABEL LOCATION FOR REFERENCE ONLY.

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 .X = ±.2 [5.08] FRACTIONS ± 1/32
 .XX = ±.02 [.51] ANGLES ± 1°
 .XXX = ±.005 [.13]

CABLE LENGTH (L), TOLERANCES:
 L ≤ 12 [305] = +1 [25] / -0
 12 [305] < L ≤ 60 [1524] = +2 [51] / -0
 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
 300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

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ITEM NO. PEWCA1112

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