



WRD-750 UG Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 7.5 GHz to 18 GHz in Copper Alloy

Waveguide to Coax Adapters Technical Data Sheet

PEWCA1114

Features

- 7.5 GHz to 18 GHz Frequency Range
- WRD-750 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 PEWCA1114 is a right angle double ridge waveguide to coaxial adapter operating at a frequency range of 7.5 GHz to 18 GHz. This adapter offers a WRD-750 waveguide interface size coupled with a precision tolerance Square Cover flange. The PEWCA1114 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-750
Flange	UG Square Cover
RF Connector	SMA Female
Impedance	50 Ohms
Body Geometry	Right Angle

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	7.5		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-750
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-750 UG Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 7.5 GHz to 18 GHz in Copper Alloy PEWCA1114](#)



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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-750 UG Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 7.5 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/wrd750-ug599-square-flange-to-sma-female-waveguide-coax-adapter-40-ghz-pewca1114-p.aspx>

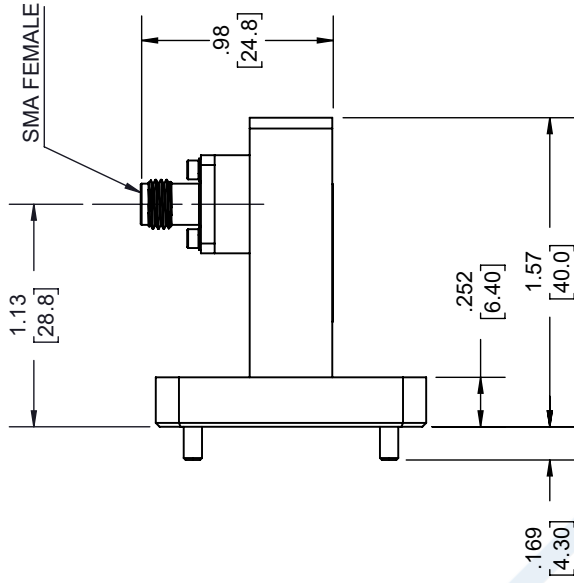
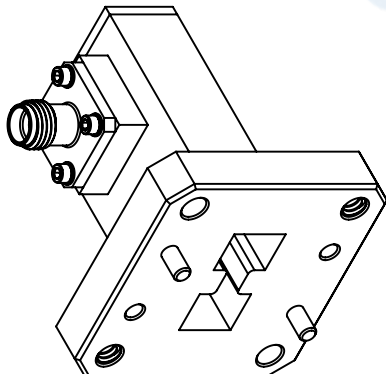
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PEWCA1114 CAD Drawing

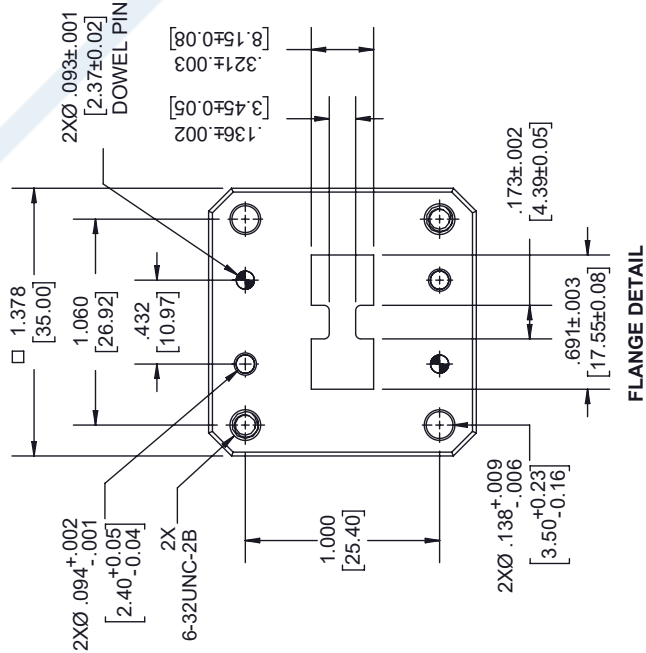
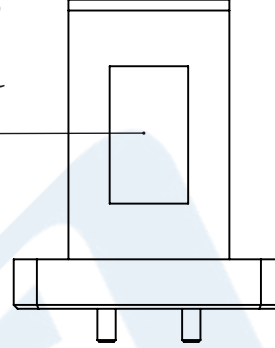
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/5/2020	S.PONG

WRD750 DOUBLE-RIDGE
FPWRD750D24 COVER FLANGE



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



FLANGE DETAIL

NOTES:

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

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X = ± .2		[5.08]	FRACTIONS		
.XX = ± .02		[.51]	± 1/32	THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.	
.XXX = ± .005		[.13]	ANGLES ± 1°	SHEET 1 OF 1	
CABLE LENGTH (L) TOLERANCES:		L ≤ 12 [305] = ± .1 [25] / -0		SCALE N/A	
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% L / -0			
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SIZE A	CAGE CODE 53919	DRAWN BY K.DANG	ITEM NO. PEWCA1114
					REV A