



WR-112 UG-51/U Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz

Waveguide to Coax Adapters Technical Data Sheet

PEWCA1010

Features

- H Band
- 7.05 to 10 GHz Frequency Range
- WR-112 Waveguide Interface
- Standard UG-51/U Square Cover Flange
- SMA Female RF Interface

Applications

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

Description

The PEWCA1010 is a waveguide to coaxial adapter operating in the H Band with a 7.05 to 10 GHz frequency range. This adapter offers a WR-112 waveguide interface size using a standard Square Cover Flange. The PEWCA1010 is constructed of Copper Alloy and painted to ensure durability. The coaxial connector offered by this adapter uses a SMA Female Nickel Plated Brass Connector.

Configuration

Waveguide Size	WR-112
Flange	UG-51/U Square Cover
RF Connector	SMA Female
Impedance	50 Ohms
Body Geometry	Right Angle

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	7.05		10	GHz
VSWR			1.25:1	

Mechanical Specifications

Size	
Length	1.5 in [38.1 mm]
Width	1.875 in [47.63 mm]
Height	1.875 in [47.63 mm]
Weight	0.451 lbs [204.57 g]

RF Connector

Connector Type	SMA Female
Body Material and Plating	Brass, Nickel

Waveguide Interface

Waveguide Type	WR-112
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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-112 UG-51/U Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz PEWCA1010](#)



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Flange Type
Flange Designation
Body Material and Plating

Square Cover
UG-51/U
Copper Alloy, Paint

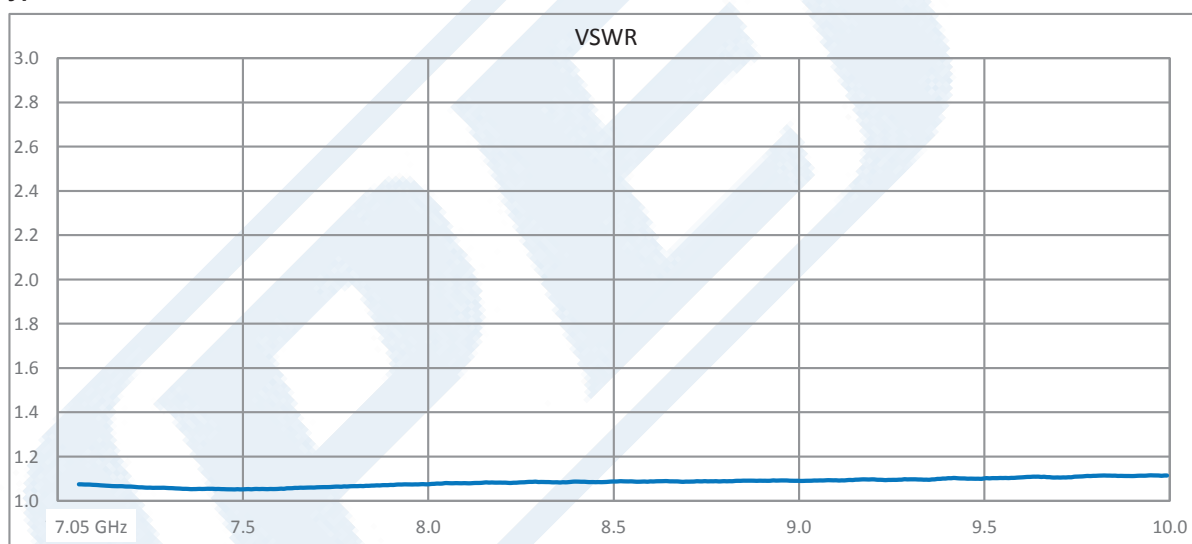
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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

Typical Performance Data



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WR-112 UG-51/U Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz 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: [WR-112 UG-51/U Square Cover Flange to SMA Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz PEWCA1010](https://www.pasternack.com/wr-112-ug51-square-sma-female-waveguide-coax-adapter-10-ghz-pewca1010-p.aspx)

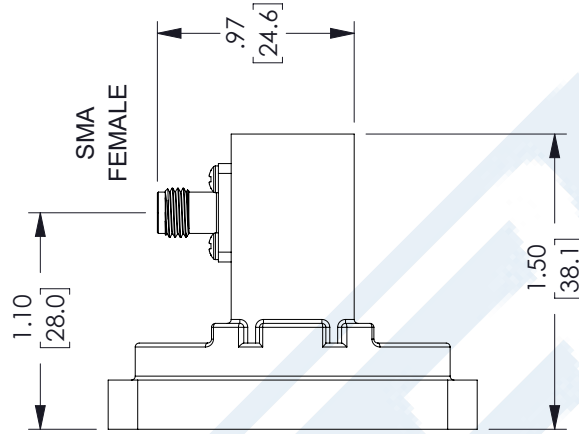
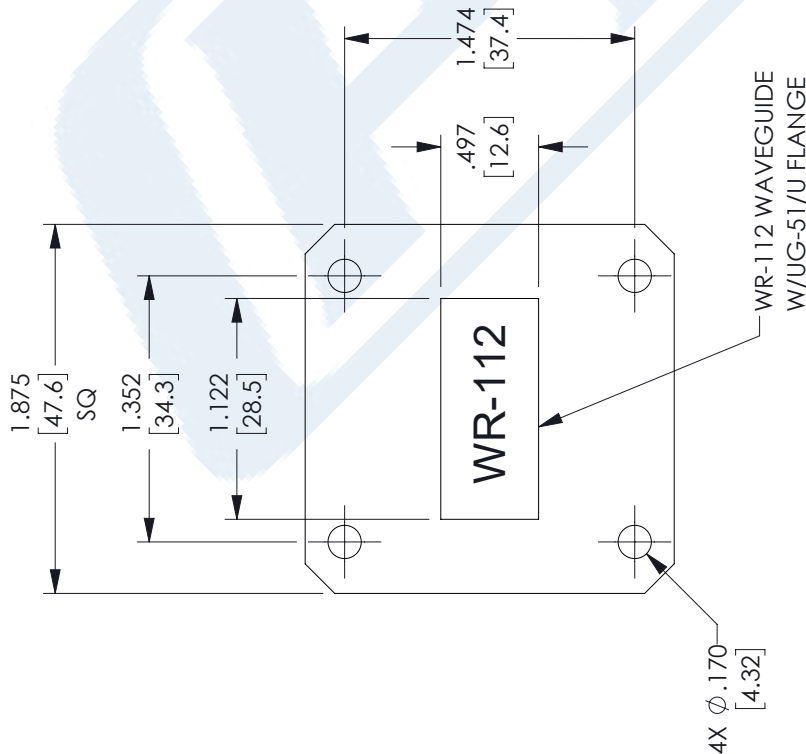
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

PEWCA1010 CAD Drawing

WR-112 UG-51/U Square Cover Flange to SMA Female Waveguide
to Coax Adapter Operating from 7.05 GHz to 10 GHz

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	PCR PEWCA1010 20220921	10/5/2022	SPONG



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

TOLERANCES:

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

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



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A 53919 DMAY PEWCA1010 REV B

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