



## WR-159 CPR-159G Grooved Flange to SMA Female Waveguide to Coax Adapter Operating from 4.9 GHz to 7.05 GHz

### Waveguide to Coax Adapters Technical Data Sheet

PEWCA1054

#### Features

- D Band
- 4.9 to 7.05 GHz Frequency Range
- WR-159 Waveguide Interface
- CPR-159G Flange
- SMA Female RF Interface
- Right Angle

#### Applications

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

#### Description

The PEWCA1054 is a waveguide to coaxial adapter operating in the D Band with a 4.9 to 7.05 GHz frequency range. This adapter offers a WR-159 waveguide interface size using a standard CPR-159G Flange. The PEWCA1054 is constructed of Aluminum Alloy and painted to ensure durability. The coaxial connector offered by this adapter uses a SMA Female Connector. All waveguide components available for same day shipping.

#### Configuration

Waveguide Size	WR-159
Flange	CPR-159G
RF Connector	SMA Female
Impedance	50 Ohms
Body Geometry	Right Angle

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4.9		7.05	GHz
VSWR		1.25:1		

#### Mechanical Specifications

<b>RF Connector</b>	
Connector Type	SMA Female
<b>Waveguide Interface</b>	
Waveguide Type	WR-159
Flange Type	CPR-159G
Body Material and Plating	Aluminum, Paint

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-159 CPR-159G Grooved Flange to SMA Female Waveguide to Coax Adapter Operating from 4.9 GHz to 7.05 GHz PEWCA1054](#)



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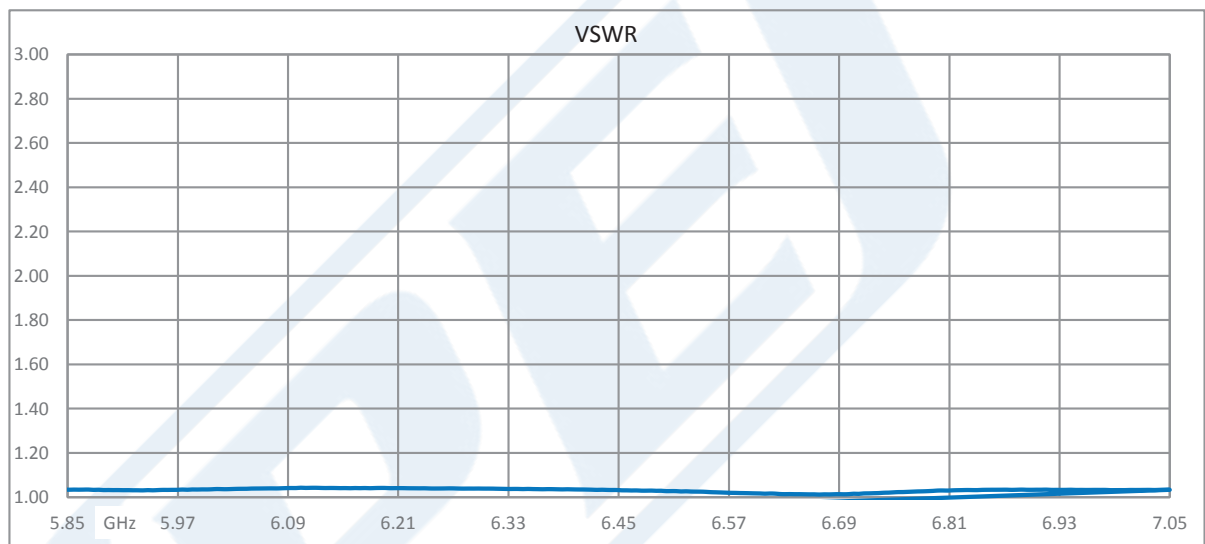
**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

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

#### Typical Performance Data



WR-159 CPR-159G Grooved Flange to SMA Female Waveguide to Coax Adapter Operating from 4.9 GHz to 7.05 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.

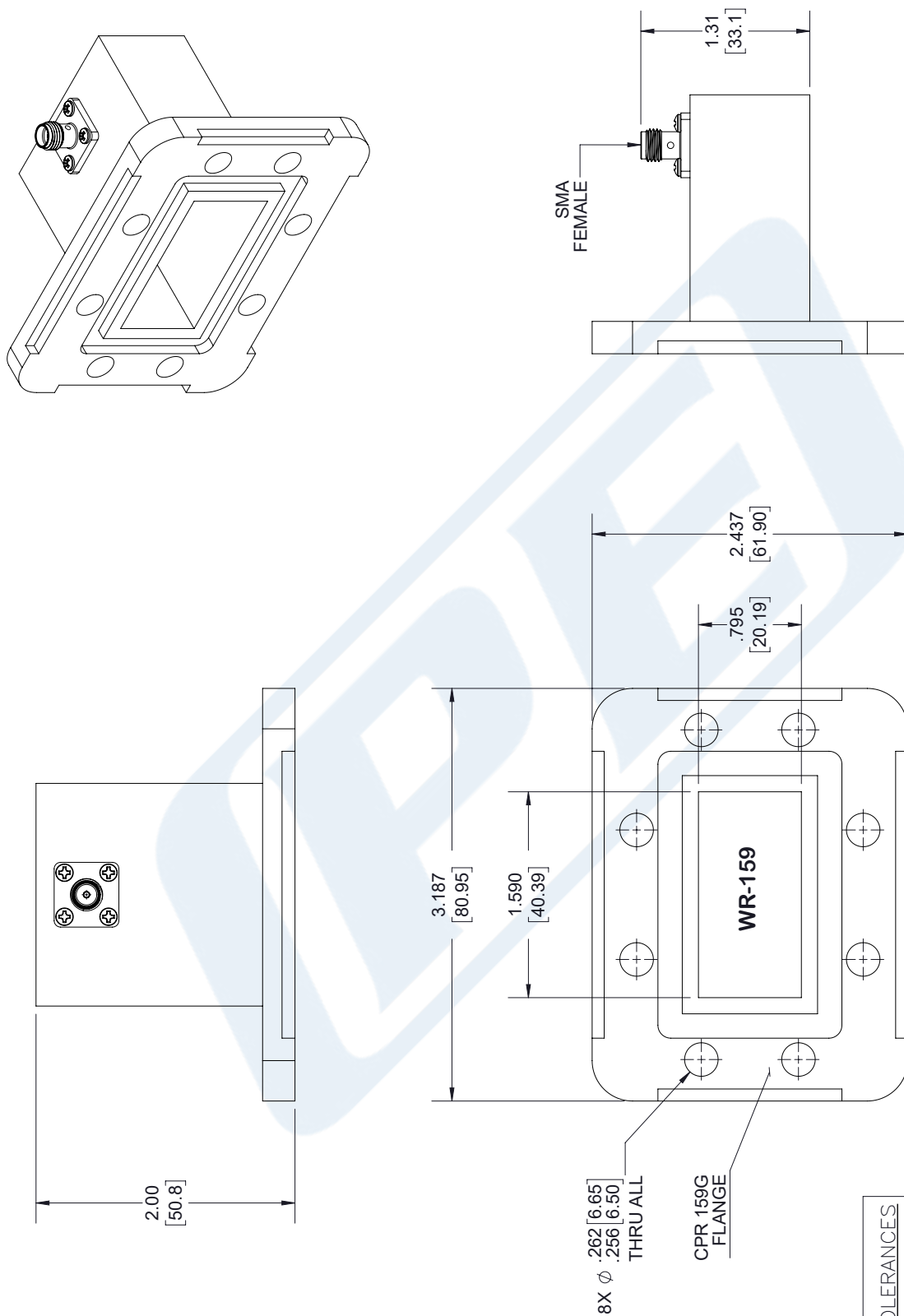
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URL: <https://www.pasternack.com/wr159-cpr-159g-grooved-flange-to-sma-female-waveguide-coax-adapter-7.05ghz-pewca1054-p.aspx>

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.

# PEWCA1054 CAD Drawing

WR-159 CPR-159G Grooved Flange to SMA Female Waveguide to Coax Adapter Operating from 4.9 GHz to 7.05 GHz



STANDARD TOLERANCES	
.X	$\pm 0.2$
.XX	$\pm 0.01$
.XXX	$\pm 0.005$

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

PEWCA1054

NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].

CAGE CODE 53919

CAD FILE 10/03/18

SCALE N/A

SIZE A

7361