

Part No:

# HWCA-229NF-CPR-RA



## *WR-229 to SMA Female Waveguide to Coax Adapter, Right Angle Design - 3.3 to 4.9 GHz*

### Features

- RoHS Compliant 

The **HWCA-229NF-CPR-RA** is a WR-229 waveguide to SMA Female coaxial adapter with a 3.3 GHz to 4.9 GHz frequency range. This adapter offers a robust design with Low VSWR and Low Insertion Loss with a CPR229 flange. HASCO waveguide to SMA coaxial transitions are designed to provide enhanced RF performance, resulting in characteristics like low insertion loss and low VSWR. When selecting a waveguide to coaxial adapter, choosing the correct connector type, flange materials, flange types and flange profiles is essential to achieving your desired RF performance.

A waveguide to coaxial adapter is a coaxial cable component designed as a transition between a waveguide and a coax connector. Waveguides, true to their name, guide electromagnetic waves of a specific frequency range with the least loss of energy possible. Coaxial connectors are cables composed of at least three layers, including a tubular shield, a layer of insulation and a conductive material. A waveguide to coaxial adapter allows for electromagnetic waves with different modes to be coupled, and thus transforms waveguide transmission lines into coaxial lines or vice versa.

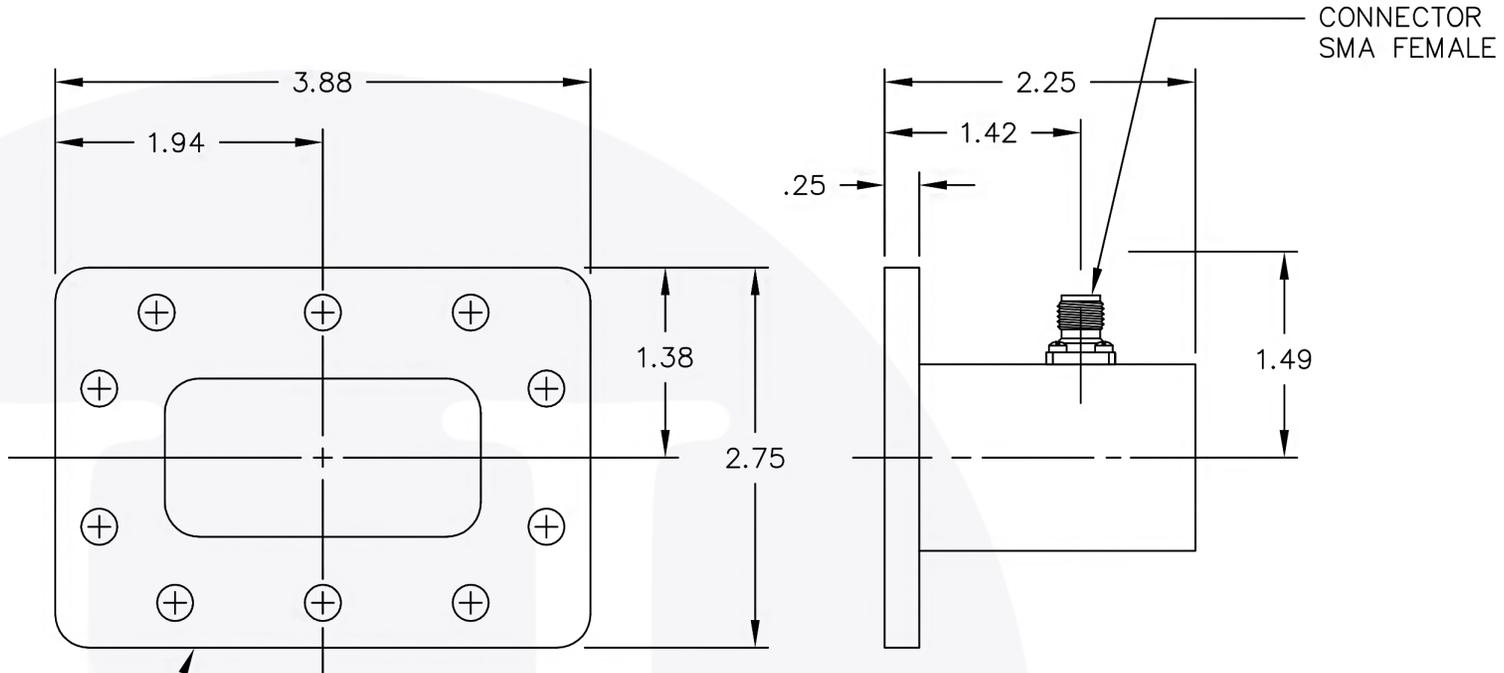
### Electrical

• Frequency Range	3.3 - 4.9 GHz
• VSWR	1.25:1 Max
• Insertion Loss	0.20 dB Typical
• Waveguide	WR-229
• Flange	CPR229

### Material

• Finish	Chemical Film PER MIL-C-5541, Clear
• Material	Aluminum Alloy

WR-229 to SMA Female Waveguide to Coax Adapter, Right Angle Design | 3.3 - 4.9 GHz | Outline Drawing



CPR-229 FLANGE, (CPR229F)  
 .256/.262 DIA THRU  
 10 PLACES,

LTR	DESCRIPTION	DATE	APPR.	DRAWN BY: NS	REVIEWED BY: JS
-	RELEASE	2/26	TC		APPROVED BY: TC
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5214 Bonsai Avenue • Moorpark, CA 93021  
 (888) 498-3242 • sales@hasco-inc.com  
[www.hasco-inc.com](http://www.hasco-inc.com)

MATERIALS: SEE DATA SHEET	CAGE CODE: 0T8L4	SCALE: N/A	SIZE: A
FINISHES: SEE DATA SHEET	PART NO./DRAWING NO. <b>HWCA-229NF-CPR-RA</b>		REV: -