

Part No:

# HWCA-101F-EL



## WR-10 to 1.0mm Female End Launch Waveguide to Coax Adapter, 75 - 110 GHz

### Electrical

- Connector Impedence 50 Ohms
- Frequency Range 75 - 110 GHz
- VSWR  $\sqrt{1.7:1}$  (17dB RL) Typ.
- Insertion Loss 0.75 dB Typ.
- Temperature Range -20°C to +50°C

### Material

- Waveguide Type WR-10, UG387/U-MOD Compatible Flange
- Waveguide Material Gold Plated Brass
- 1.0mm Connector Body Passivated Stainless Steel
- 1.0mm Center Contact Gold Plated BeCu

The HASCO HWCA-101F-EL waveguide to coax adapter is manufactured for end-launch (straight) requirements. This adapter is designed for WR-10 waveguide and has a UG387/U-MOD compatible flange with a 1.0mm Female connector. A 1.0mm Male version is also available upon request.

This precision full-band coax-to-waveguide end launch adapter converts between TEM mode in coax and the 1.0mm connector to TE<sub>10</sub> mode in WR-10 waveguide. This adapter offers exceptionally low loss for an end-launch configuration. The measurements show the loss and VSWR of two adapters measured back-to-back in a calibrated waveguide measurement system, which infers a loss for each adapter at half the measured value, and a VSWR of the square root of the measured back-to-back value. An outer rim based on the widely adopted ALMA recommendation form an anti-cocking flange that is backward compatible to the Mil-F-3922/67B standard. For test-and-measurement applications, our gold-plated solid brass body and stainless steel alignment pins ensure reliable gall-free mating over multiple mate and de-mate cycles.

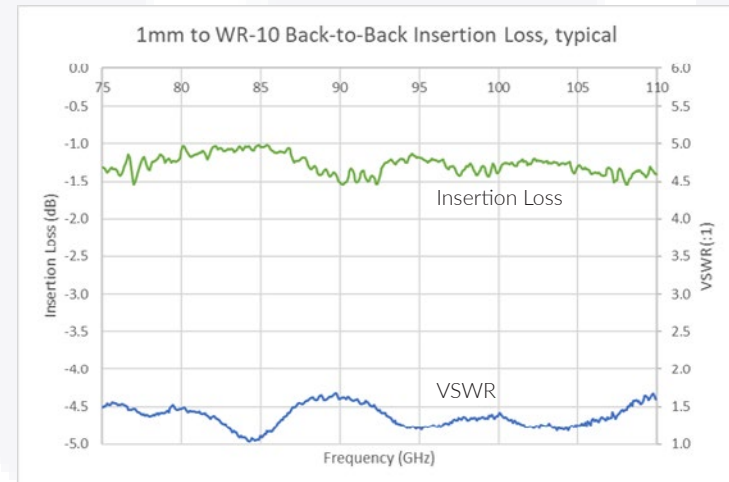
The HASCO HWCA-101F-EL is RoHS Compliant.



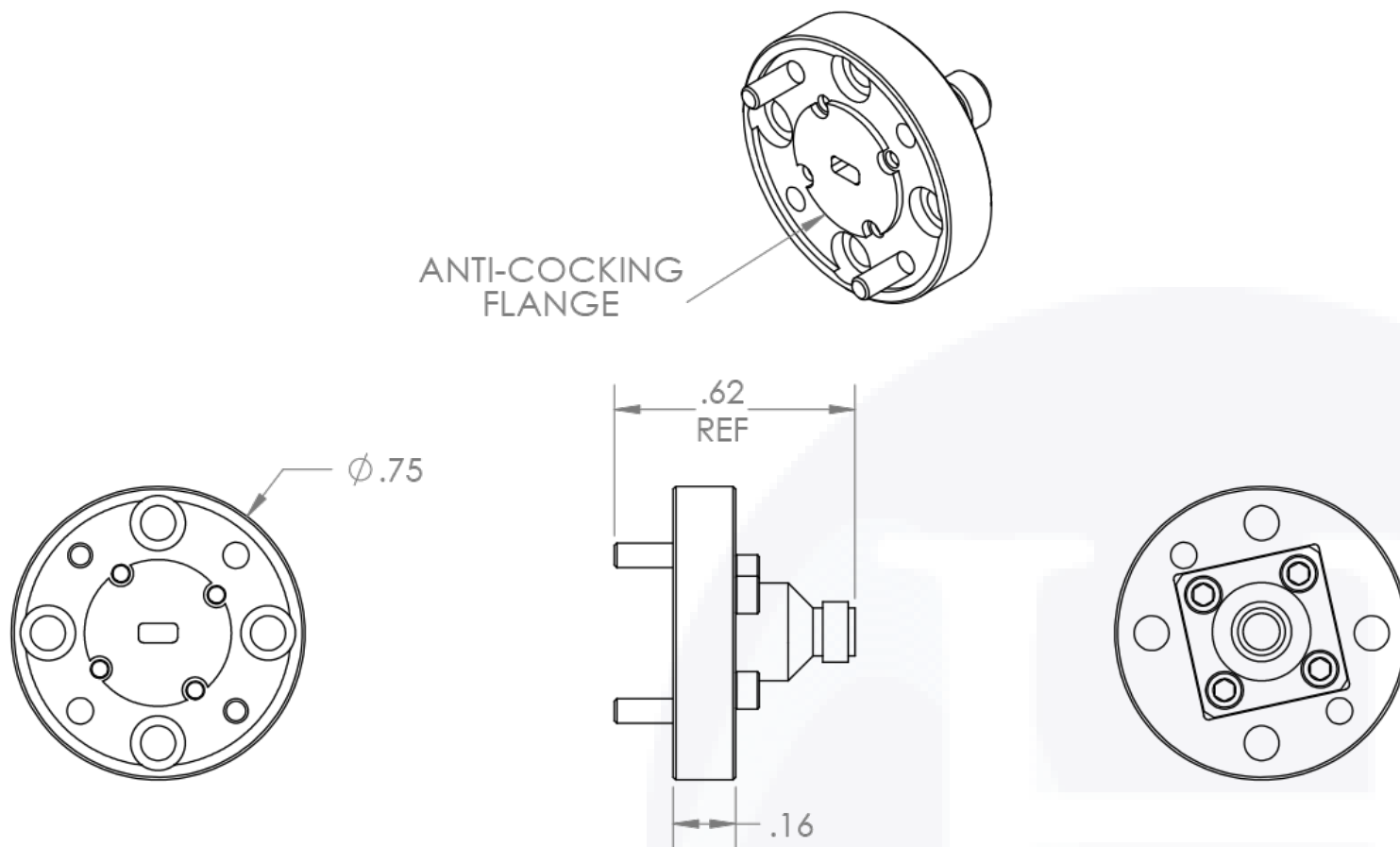
HASCO stocks an extensive selection of RF and Microwave between-series, waveguide, in-series, right angle and low PIM adapters.

Installation torque of  $0.45 \pm 0.02$  NM [ $4.0 \pm 0.15$  in lbs] recommended.

HASCO torque wrench #HTW-1564-04 is available in stock.



WR-10 to 1.0mm Female Waveguide to Coax\_End Launch Adapter | 75 ~ 110 GHz | Outline Drawing



LTR	DESCRIPTION	DATE	APPR.	DRAWN BY: JMS	CHECKED BY: JMS
-	RELEASE	09/20	TAC	APPROVED BY: TAC	
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MATERIALS:

SEE DATA SHEET

CAGE CODE:

0T8L4

SCALE:

N/A

SIZE:

A

FINISHES:

SEE DATA SHEET

PART NO./DRAWING NO.

**HWCA-101F-EL**

REV:

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