Part No:

HWCA-151F-EL

HASCO, INC
COMPONENTS DISTRIBUTOR

WR-15 to 1.0mm Female End Launch Waveguide to Coax Adapter, 50 -75 GHz

The HASCO HWCA-151F-EL waveguide to coaxial adapter is manufactured for end-launch (straight) requirements. This adapter is designed for WR-15 waveguide and has a UG385/U 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 TE10 mode in WR-15 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-151F-EL is RoHS Compliant.

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

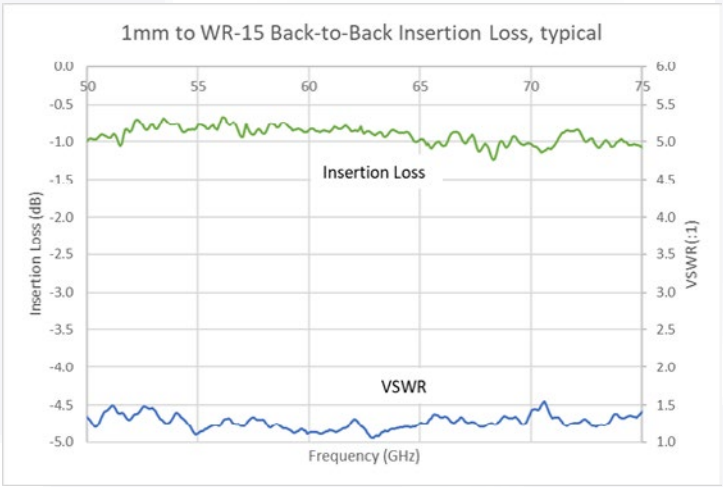
Installation torque of 0.45 ± 0.02 NM [4.0±0.15 in lbs] recommended. HASCO torque wrench #HTW-1564-04 is available in stock.

Electrical

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

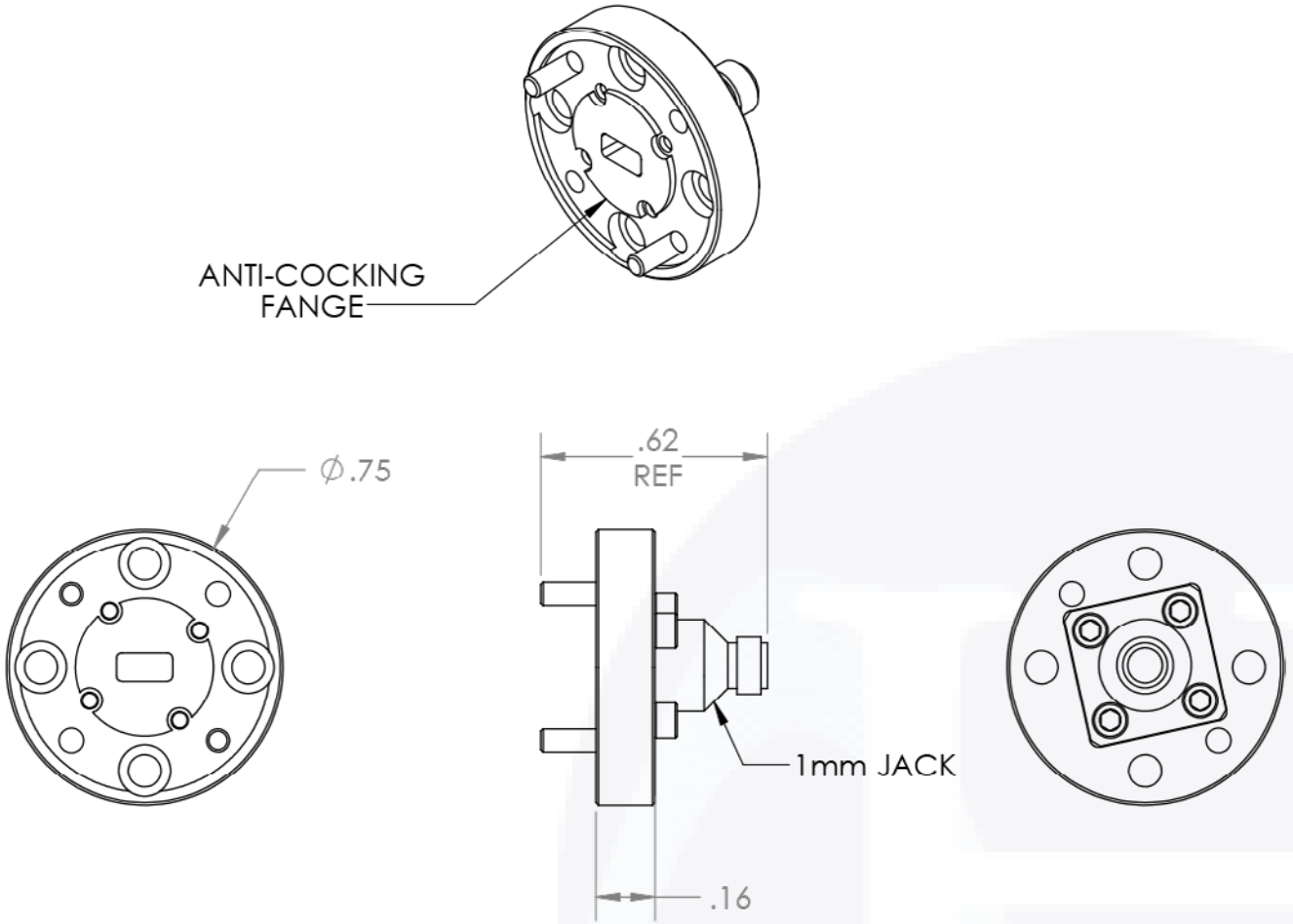
Material

- Waveguide Type WR-15, UG385/U Compatible Flange
- Waveguide Material Gold Plated Brass
- 1.0mm Connector Body Passivated Stainless Steel
- 1.0mm Center Contact Gold Plated BeCu



5214 Bonsai Street • Moorpark, CA 93021| (888) 498-3242 • sales@hasco-inc.com | www.hasco-inc.com

WR-15 to 1.0mm Female Waveguide to Coax End Launch Adapter | 50 ~ 75 GHz | Outline Drawing



LTR	DESCRIPTION	DATE	APPR.
-	RELEASE	09/20	TAC

THIS DRAWING IS A CONTROLLED DOCUMENT

DRAWN BY: *JMS* | CHECKED BY: *JMS*

APPROVED BY: *TAC*

HASCO, INC
COMPONENTS DISTRIBUTOR
5214 Bonsai Street • Moorpark, CA 93021
(888) 498-3242 • sales@hasco-inc.com
www.hasco-inc.com

MATERIALS:	CAGE CODE:	SCALE:	SIZE:
SEE DATA SHEET	0T8L4	N/A	A
FINISHES: SEE DATA SHEET	PART NO./DRAWING NO. **HWCA-151F-EL**		REV: -