HWCA-121F-EL





The HASCO HWCA-121F-EL waveguide to coaxial adapter is manufactured for end-launch (straight) requirements. This adapter is designed for WR-12 waveguide and has a UG387/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-12 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-121F-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-12 to 1.0mm Female End Launch Waveguide to Coax Adapter, 60 -90 GHz

Electrical

• Connector Impedence 50 Ohms

• Frequency Range 60 - 90 GHz

• VSWR $\sqrt{1.7:1}$ (17dB RL) Typ.

• Insertion Loss 0.75 dB Typ.

• Temperature Range -20°C to +50°C

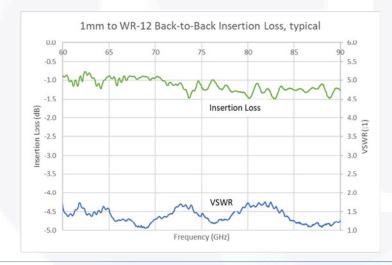
Material

• Waveguide Type WR-12, UG387/U Compatible Flange

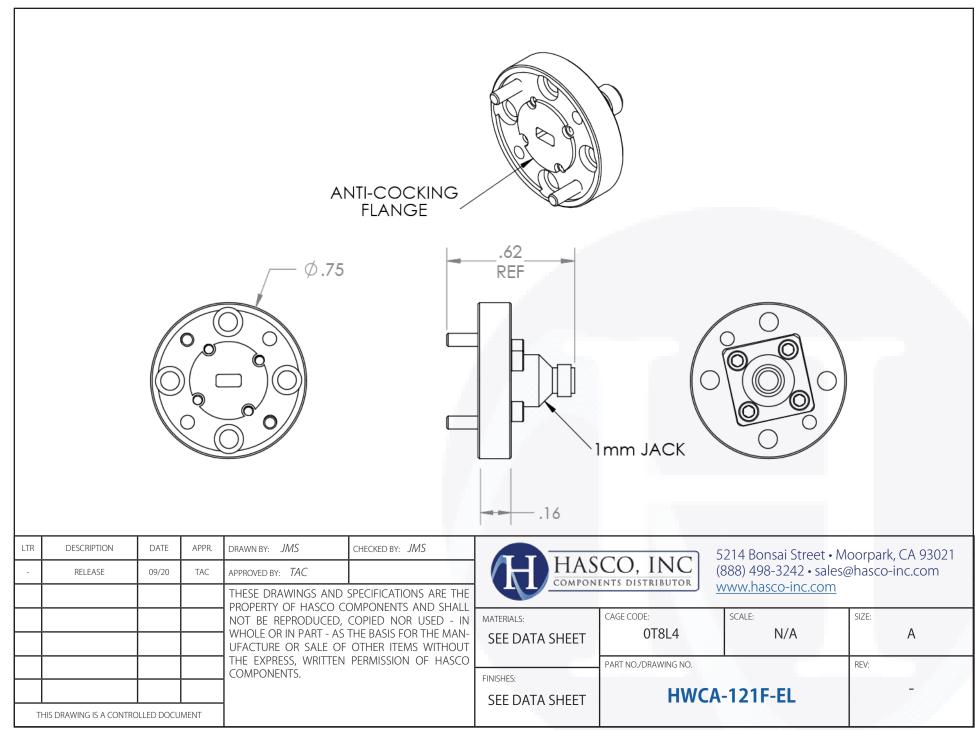
• Waveguide Material Gold Plated Brass

• 1.0mm Connector Body Passivated Stainless Steel

• 1.0mm Center Contact Gold Plated BeCu



WR-12 to 1.0mm Female Waveguide to Coax End Launch Adapter | 60 ~ 90 GHz | Outline Drawing



Product specifications subject to change without notification.

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