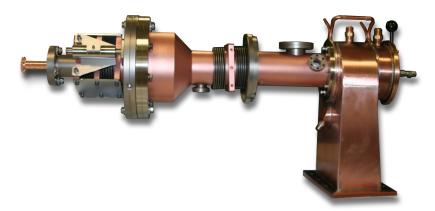
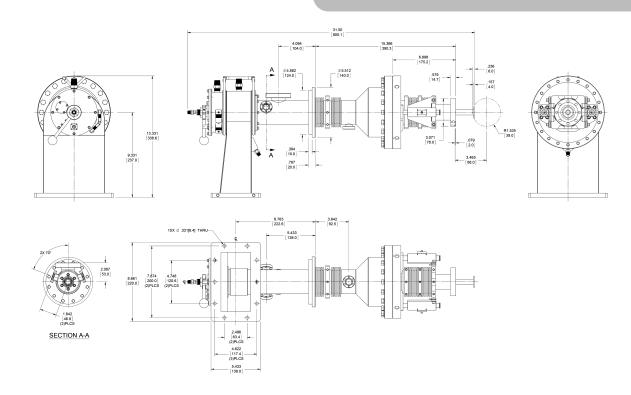
CPI Electron Device Business - Power Coupler Product Specification



The VWP3113 Fundamental Power Coupler was designed for the University of Beijing. The coupler design is based on a Cornell Power Coupler, with modified coupling, and a 40mm coax diameter. The design utilizes TiN coated multipactor suppression on the Windows, and high RRR copper plating for low RF loss.

FEATURES:

- 55 kW CW
- Air and water cooled
- Waveguide input
- Adjustable coupling
- Double window design
- Inner conductor may be biased



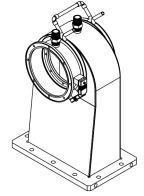


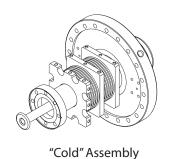
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Electrical Parameters

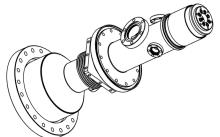
1.3 GHz
55 kW CW (Design limit) with matched load Tested to 25 kW (CW)
≤ 1.15 (Design Value)
≤ 1 W (Design Value)
≤ 1 W (Design Value)
≤ 10 W (Design Value)
≤ 70 W (Design Value)
> 10 mm
>5 mm
< 10 ⁻¹⁰ mbar.L /s
8x10 ⁵ to 5x10 ⁶ variable adjustable
TTF -III style aluminum Hex seal 1.752" diameter
40 mm
Waveguide adaptor cooled with filtered water
Warm window cooled at waveguide adaptor and in inner conductor

Product can be cleaned in CPI EDB's class 10 clean room after fabrication for an additional charge. If the product is not cleaned in CPI EDB's class 10 clean room, it will need to be done by the customer before the product is conditioned.





Waveguide Transition Assembly



"Warm" Outer Conductor Assembly





Biasing Assembly

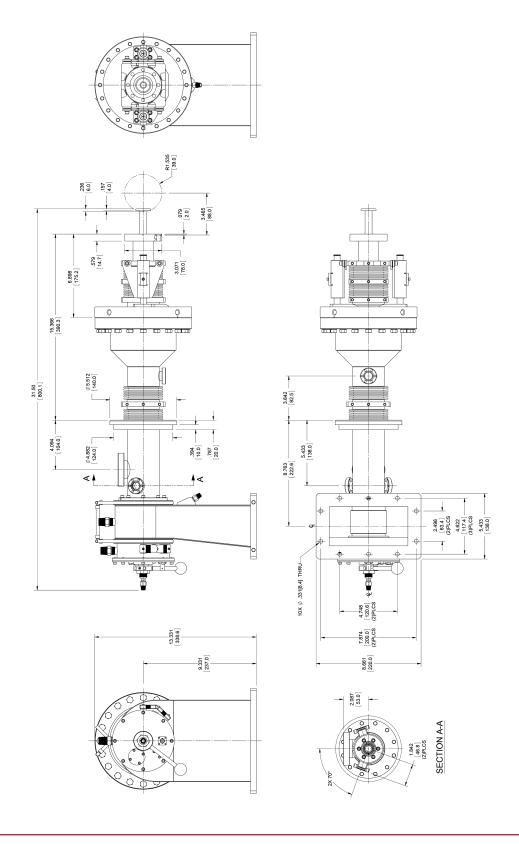


Capacitor Assembly

Note: Product is supplied with a full set of Conflat gaskets RF contact gaskets, coated nuts and bolts, and thermocouples.



CPI EDB 55 kW CW Power Coupler outline drawing: VWP3113





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For more detailed information, please refer to the corresponding CPI EDB technical description if one has been published, or contact CPI EDB. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI EDB before using this information for system design.

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