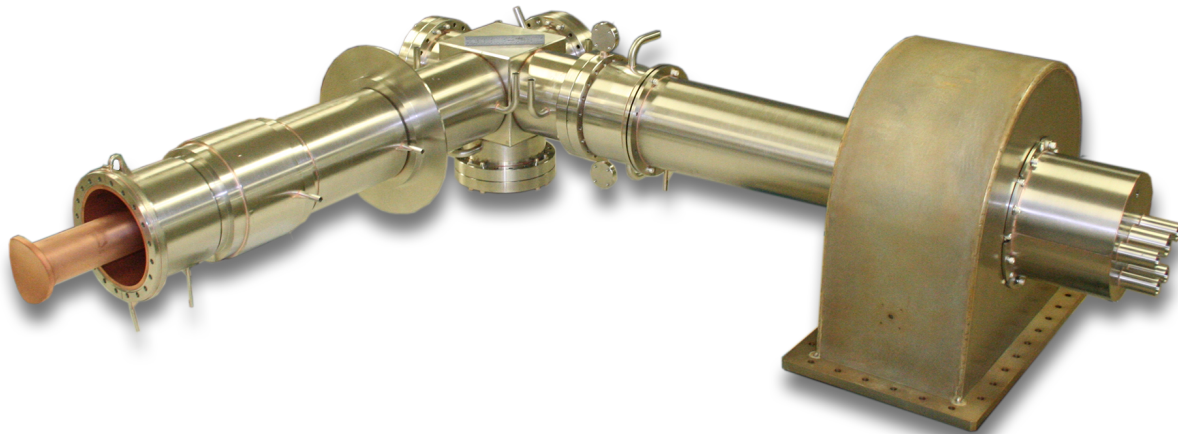


CPI Electron Device Business - Power Coupler



The VWP3107 Fundamental Power Coupler was designed for the NSLSII upgrade by Advanced Energy Systems, Inc. with assistance from CPI EDB. The 500 kW cw requirement is met with a single ceramic window. The vacuum side of the ceramic is coated with TiN to suppress multipactor. RF-conducting surfaces are electroplated with high-RRR copper. The coupler will be qualified at Brookhaven National Laboratory. The VWP3107 is the largest power coupler built at CPI EDB. Both sections of the coupler are approximately 4.5 foot long. The coupler weighs approximately 150 pounds.

FEATURES:

- Frequency: 500 MHz
- Peak power: 500 kW
- Average power: 500 kW
- Cooling: Water

APPLICATIONS:

- Superconducting linear accelerators

CPIEDB Model Number	Accelerator Application	Freq. (MHz)	Peak Power (kW)	Avg. Power (kW)
VWP3107	NSLSII (AES, BNL)	500	500	500



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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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