Communications & Power Industries Power Coupler



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

• Frequency: 500 MHz • Peak power: 500 kW • Average power: 500 kW

Cooling: Water **APPLICATIONS:**

• Superconducting linear accelerators

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



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

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