Communications & Power Industries Power Coupler



The VWP1133 Fundamental Power Coupler was designed for the Spallation Neutron Source (SNS) Superconducting Accelerator. The Spallation Neutron Source makes use of superconducting RF cavities resonating at 805 MHz to accelerate H- ions to up to 1300 MeV. The VWP1133 power coupler is a coaxial coupler with a single ceramic window providing the vacuum interface. vacuum side of the ceramic is coated with TiN to suppress multipactor. The VWP1133 was designed by AMAC International in collaboration with CPI. The VWP1133 was successfully qualified at Thomas Jefferson National Accelerator Facility in 2002.

• Frequency: 805 MHz • Peak power: 1000 kW Average power: 60 kW

· Cooling: Water

APPLICATIONS:

• Superconducting linear accelerators

		Freq.	Peak Power	Avg. Power
CPI Model Number	Accelerator Application	(MHz)	(kW)	(kW)
VWP1133	SNS Prototype (JLAB)	805	1000	60



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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. web www.cpii.com

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