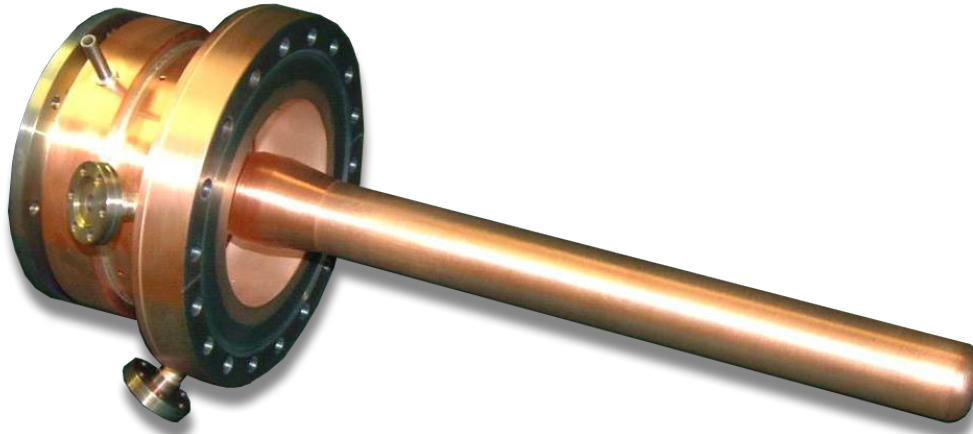


## CPI Electron Device Business - Power Coupler



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<sup>-</sup> ions to up to 1300 MeV. The VWP1133 power coupler is a coaxial coupler with a single ceramic window providing the vacuum interface. The vacuum side of the ceramic is coated with TiN to suppress multipactor. The VWP1133 was designed by AMAC International in collaboration with CPI EDB. The VWP1133 was successfully qualified at Thomas Jefferson National Accelerator Facility in 2002.

### FEATURES:

- Frequency: 805 MHz
- Peak power: 1000 kW
- Average power: 60 kW
- Cooling: Water

### APPLICATIONS:

- Superconducting linear accelerators

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



**Beverly Microwave Division**  
 150 Sohier Road  
 Beverly, Massachusetts  
 USA 01915

tel +1 978-922-6000  
 email [ElectronDevices@cpiedb.com](mailto:ElectronDevices@cpiedb.com)  
 fax +1 978-922-8914  
 web [www.cpi-edb.com](http://www.cpi-edb.com)

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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