CPI Power Couplers

Communications & Power Industries Power Couplers customized for your application.

Contact us at BMDMarketing@cpii.com or call us at +1 978-922-6000

CPI Model Number | Accelerator Application | Freq. (MHz) | Peak Power (kW) | Avg. Power (kW)
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VWP3097 | IFMIF Prototype (CEA Saclay) | 175 | 200 | 200
VWP3098 | FRIB Prototype (MSU) | 322 | 14 | 14
VWP3124 | RFQ (ORNL) | 402 | 14 | 14
VWP2107 | NSLSII (AES, BNL) | 500 | 500 | 500
VWP3070 | FEL Injector (AES, BNL) | 704 | 500 | 500
VWP1185/86 | FEL Injector (AES, JLAB) | 748 | 350 | 350
VWP1133 | SNS Prototype (JLAB) | 805 | 1000 | 60
VWP1162 | RIA Prototype (MSU) | 805 | 1000 | 10
VWP1137 | Tesla Test Facility (CNRS Orsay, DESY) | 1300 | 1100 | 7.2
VWP3049 | ILC Test Area (Fermi, SLAC and Triumf) | 1300 | 1100 | 7.2
VWP3126 | XFEL (EuXFEL) | 1300 | 1100 | 7.2
VWP3130 | SLAC (LCLS-II) | 1300 | 7 | 7
VWP3032 | ERL Injector (Cornell and Triumf) | 1300 | 75 | 75
VWP3069 | ERL Injector (Daresbury) | 1300 | 75 | 75
VWP3113 | SRF (Peking University) | 1300 | 50 | 50
VWP3108 | ERL (Cornell) | 1300 | 5 | 5
VWP3088 | XFEL Third Harmonic Cavity (Fermi, Desy) | 3900 | 45 | 12.5

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 a result of additional data or product refinement. Please contact CPI before using this information for system design.

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CPI BMD’s power couplers are manufactured to its customer’s specifications using processes which are standard to the electron device industry, as well as processes which are specific to power couplers. CPI BMD has developed the capability of plating high-RRR copper on stainless steel. Plating is done in-house under carefully controlled conditions. CPI BMD’s high-RRR copper plating has been qualified by Cornell, DESY, SLAC, XFEL, and CEA Saclay. CPI BMD has developed the capability of applying titanium nitride (TiN) coatings to ceramic windows. TiN coating is done in-house under carefully controlled conditions. CPI BMD’s TiN coating process has been qualified at DESY.

CPI BMD has:
- Installed a class 10 (ISO-4) clean room for power coupler cleaning and assembly to XFEL standards. The class 10 clean room and associated procedures have been vetted by accelerator scientists, power coupler experts, and vacuum specialists from XFEL, DESY, SLAC, and JLAB.
- Installed two bake out stations for the LCLS-II program.
- Extensive experience working with the world’s best accelerator scientists and engineers to fabricate power couplers for superconducting accelerators.

CPI BMD is currently manufacturing 300 power couplers for the XFEL and LCLS-II accelerators and has built up the necessary infrastructure for fabrication and assembly at rates necessary to support these programs.

At CPI Beverly Microwave Division, we provide high quality microwave products supporting superconducting linear accelerators.

Check out all our power coupler products at www.cpii.com/bmd