CPI Electron Device Business - Power Coupler



The VWP3097 Fundamental Power Coupler was designed by CEA Saclay and CPI for the IFMIF Linac. CEA Saclay was responsible for the RF design and the preliminary thermo-mechanical design. CPI EDB was responsible for the detailed thermo-mechanical design. The 50-ohm coaxial coupler consists of an RF window, a "T" transition assembly and a cooled outer conductor. The 200 kW cw requirement is met with a single alumina ceramic window. The vacuum side of the ceramic is coated with TiN to suppress multipactor. The couplers will be qualified at CIEMAT in Spain for CEA Saclay. Eight VWP3097 couplers will be used on the IFMIF Linac.

FEATURES:

Frequency: 175 MHzPeak power: 200 kW

• Average power: 200 kW

Cooling: water / He gas

APPLICATIONS:

 Superconducting Linear Accelerators

		Freq.	Peak Power	Avg. Power
CPI EDB Model Number Accelerator Application		(MHz)	(kW)	(kW)
VWP3097	IFMIF Prototype (CEA Saclay)	175	200	200



Beverly Microwave Division 150 Sohier Road Beverly, Massachusetts

USA 01915

tel +1 978-922-6000

email ElectronDevices@cpi-edb.com

fax +1 978-922-8914 web 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.

©2024 CPI Electron Device Business. Company proprietary: use and reproduction is strictly prohibited without written authorization from CPI EDB.