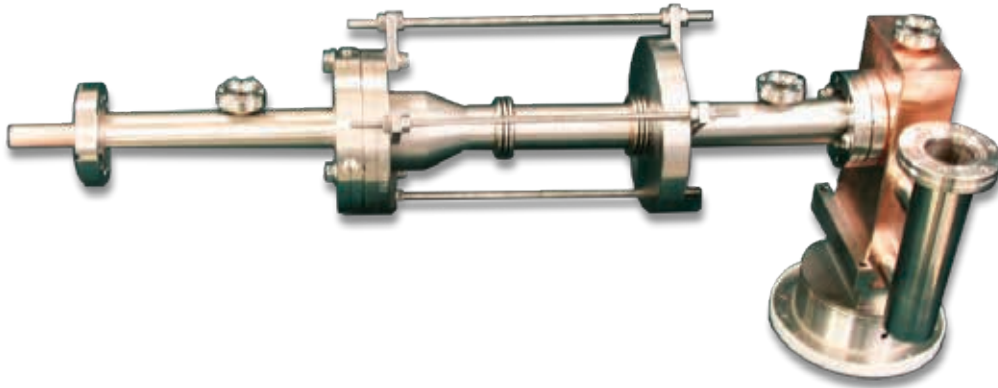


## Communications & Power Industries Power Coupler



The WVP3088 Fundamental Power Coupler is designed for the Fermi National Lab Third Harmonic Accelerating Cavity used on the European XFEL. The WVP3088 was designed by Fermi Lab with the warm window design provided by CPI. The WVP3088 incorporates fixed coupling with no dc bias. All components are brazed. The cold window utilizes the same cylindrical ceramic as in the TTF3 power coupler. Both ceramics are coated with TiN to suppress multipactor. RF-conducting surfaces are electroplated with high-RRR copper. The couplers were qualified in 2006.

### FEATURES:

- Frequency: 3900 MHz
- Peak Power: 45 kW
- Average Power: 12.5 kW
- Cooling: Air

### APPLICATIONS:

- Superconducting Linear Accelerators

CPI Model Number	Accelerator Application	Freq. (MHz)	Peak Power (kW)	Avg. Power (kW)
WVP3088	XFEL Third Harmonic Cavity (Fermi, Desy)	3900	45	12.5