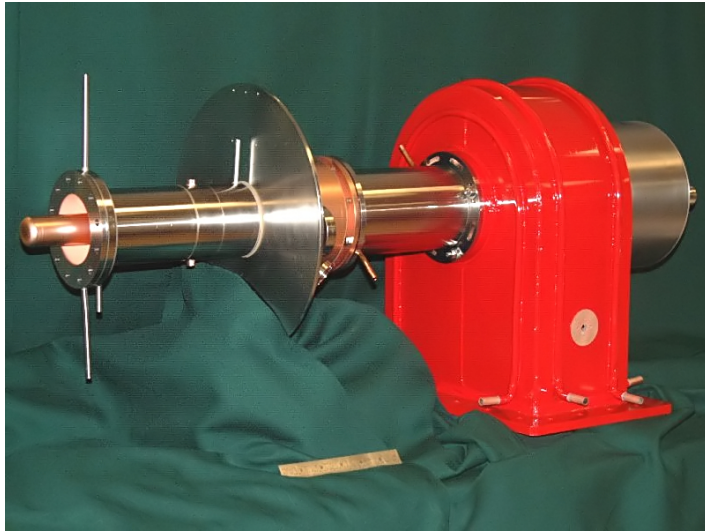


# Power Couplers

## VWP1185 / 86



### Features:

- Frequency: 748 MHz
- Peak Power: 1000 kW
- Average Power: 1000 kW
- Cooling: Water, Helium

### Description:

The VWP1185 and the VWP1186 Fundamental Power Couplers are designed for a high-current Free Electron Laser Injector. The VWP1185 / 86 couplers were designed by Advanced Energy Systems, Inc. The 1 MW cw requirement is met with a BeO ceramic window. The vacuum side of the ceramic is coated with TiN to suppress multipactor. RF-conducting surfaces are electroplated with high RRR copper. The couplers will be qualified at the Thomas Jefferson National Accelerator Facility in 2007.

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