

## Communications & Power Industries Klystrons



CPI Microwave Power Products (MPP) offers klystrons for particle accelerator applications. The VKP-8291A is an 805 MHz, 550 kW peak, 50 kW average long-pulse klystron for the US Department of Energy Spallation Neutron Source Project

### Typical Operating Parameters

Peak power output	560 kW
Average output power	50 kW
Peak beam voltage	75 kV
Peak beam current	11.5 A
Frequency	805 MHz
Duty	9%
RF pulsewidth	1.50 mSec
Minimum 1 dB bandwidth	±2 MHz
Minimum saturated gain	51 dB
Minimum efficiency	67%
Collector coolant flow	35 gpm/130 l/m
Body/Magnet coolant flow	5 gpm/20 l/m

### Electromagnet

Gun coil current	16 A
Gun coil voltage	3 V
Main coil current	28 A
Main coil voltage	80 V

### Size with accessories

Height	105 in/267 cm
Weight	500 lbs/1100 kg

### FEATURES:

- Cathode-pulsed electron gun
- 6-cavity RF circuit, including one 2nd harmonic cavity for enhanced efficiency
- Single output window
- Collector capable of dissipating the entire beam power

### BENEFITS:

- High reliability & efficiency
- Proven long life designs
- Customizable models for your application

### APPLICATIONS:

- Particle accelerator