



VKL-8301B Multiple Beam Klystron

VKL-8301B

CPI Microwave Power Products (MPP) offers klystrons for particle accelerator applications. The VKL-8301B is a 1300 MHz, 10 MW peak power, 150 kW average power, long-pulse multiple beam klystron developed for the European X-FEL and International Linear Collider (ILC) projects.



FEATURES

- Multiple beams result in high rf output power and efficiency at lower operating voltages
- Beam separation and cathode size tailored for long cathode life (>100,000 hours expected)
- Six beam, cathode-pulsed electron gun
- RF circuit with seven fundamental-mode coaxial cavities
- Dual WR-650 waveguide outputs
- Collector capable of dissipating the entire beam power
- Integrated X-ray shielding
- Horizontally oriented on a cart with adjustability and klystron positioning for easy installation

Typical Operating Parameters

Item	Value	Units
Beam Voltage	118	kV
Beam Current	130	A
Frequency	1.3	GHz
Peak Power	10.4	MW
Ave, Power	156	KW
Sat. Gain	50	dB
Efficiency	67.8	%
Duty	1.5	%

The values listed above represent specified limits for the product are subject to change. The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.



For information on this and other CPI products visit our webpage at www.cpii.com, or contact CPI MPP Division, 607 Hansen Way, Palo Alto, CA 94303
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