

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	%



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