

Communications & Power Industries Gyrotron Oscillator



FEATURES:

- High efficiency, long-pulse operation
- Gaussian output beam
- CVD diamond output window
- Diode electron gun
- Cryogen-free superconducting magnet

BENEFITS:

- Compact
- Cryocooled electromagnet

APPLICATIONS:

- Directed energy
- Industrial heating



CPI gyrotrons were the first commercially available high-power, long-pulse/CW, high-frequency devices for plasma fusion experiments and other scientific and industrial applications. CPI-MPP provides an extensive line of gyrotrons that cover frequencies from 28-140 GHz with power levels ranging from 10 kW to 1.3 MW.

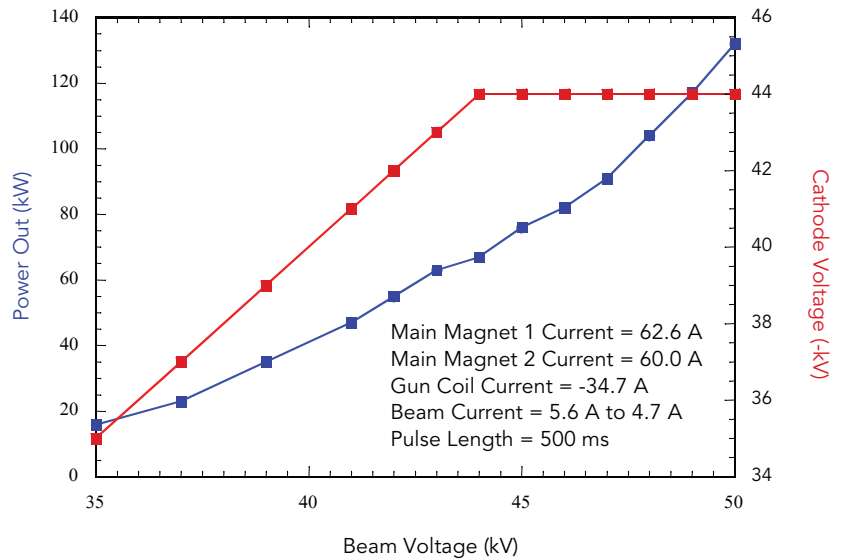
The VGB-8095 gyrotron provides up to 100 kW of continuous output power at 95 GHz, and employs a compact cryogen-free refrigerator-cooled superconducting magnet system.

CPI 100 Kw Gyrotron CW Oscillator: VGB-8095

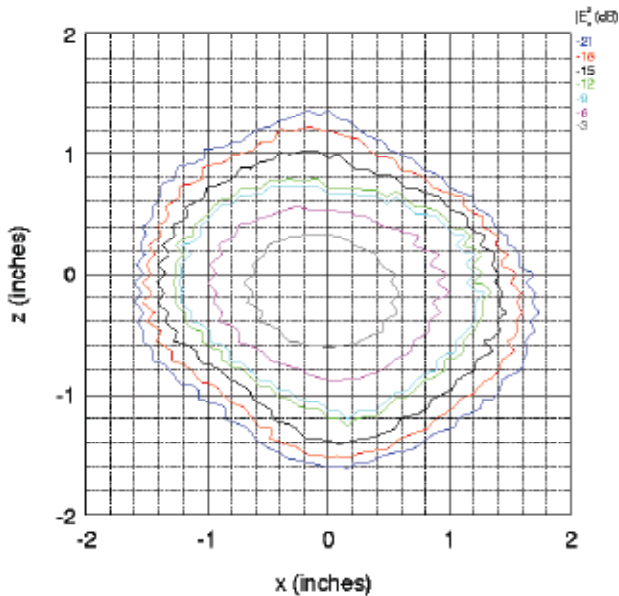
Typical Operating Parameters

Power output	100 kW
Pulse length	CW
Cathode voltage	-43 kV
Body voltage	+7 kV
Beam current	5 A
Frequency	95 ± 0.2 GHz
Efficiency	50%
Gyrotron weight	375 lbs (170.10 kg)
Output mode	TEM ₀₀

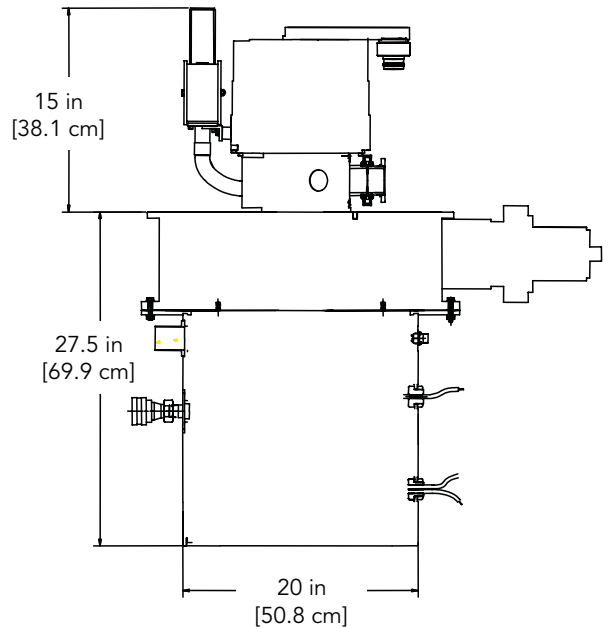
POWER OUTPUT VS. BEAM VOLTAGE
VGB-8095 S/N 2R
TESTED IN O.I. SCM VYW-8095 S/N 1 ON 11 APRIL 2002



Cold Test Measurement of Output Beam
9 in. From Output Window



Outline of VGB-8095 Gyrotron and
VYW-8095 Magnet



With a history of producing high quality products, we can help you with your gyrotron.

Contact us at MPPMarketing@cpii.com or call us at +1 650-846-2800.

The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.