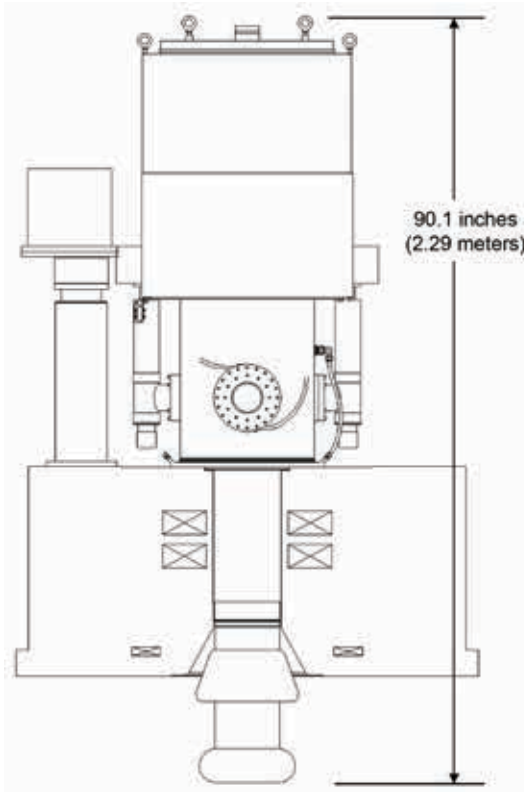


Communications & Power Industries Gyrotron Oscillator



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 VGT-8141 gyrotron delivers continuous wave (CW) output power levels up to 900 kW at a frequency of 140 GHz for electron cyclotron heating and current drive in fusion plasmas.

FEATURES:

- High power, continuous operation
- Gaussian output beam
- CVD diamond output window
- Diode electron gun
- Single-stage depressed collector

BENEFITS:

- Long pulse & CW capable
- Broad range of operating frequencies

APPLICATIONS:

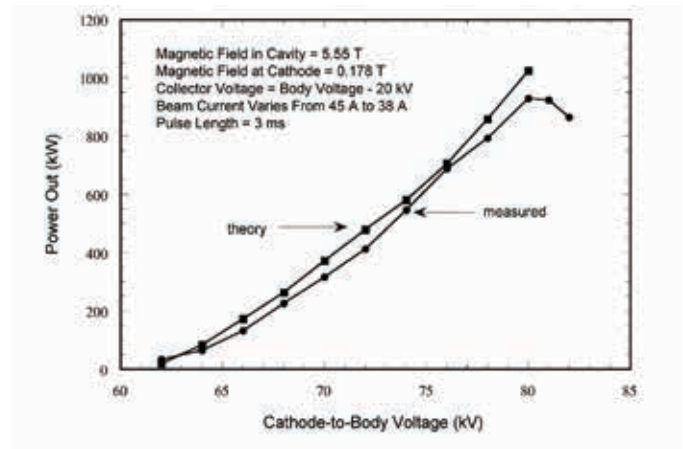
- Electron heating
- Fusion reactors
- Current drive in reactors

CPI 900 kW Gyrotron CW Oscillator: VGT-8141

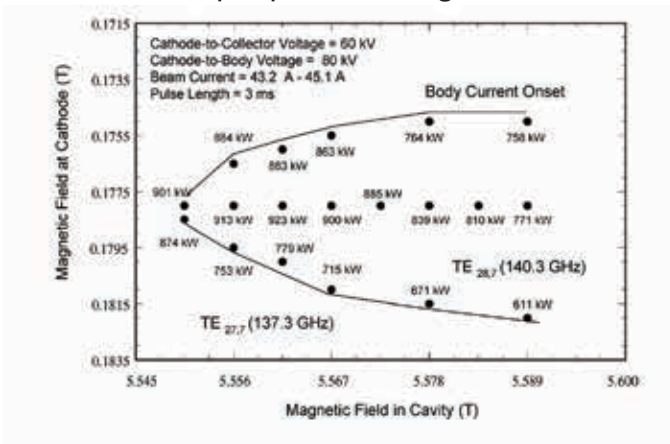
Typical Operating Parameters

Power output	900 kW
Pulse length	CW
Body voltage	20 kV
Cathode voltage	-60 kV
Beam current	40 A
Frequency	140 ± 0.3 GHz
Efficiency	35%
Output mode	TEM ₀₀

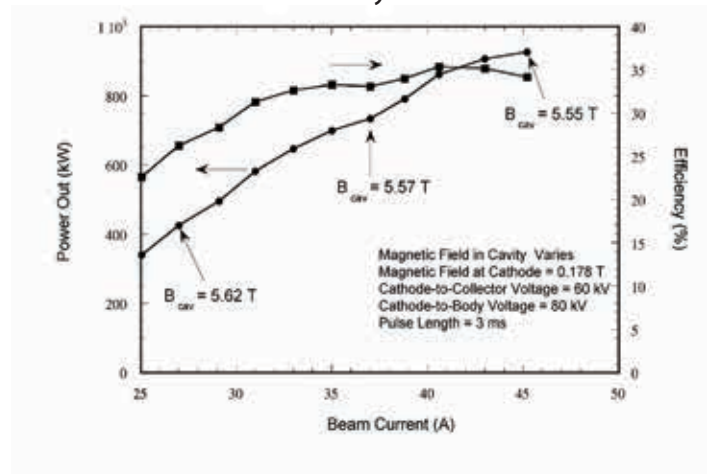
Output power vs Beam voltage



Output power vs Magnetic field



Power & Efficiency vs Beam current



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.



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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design.

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