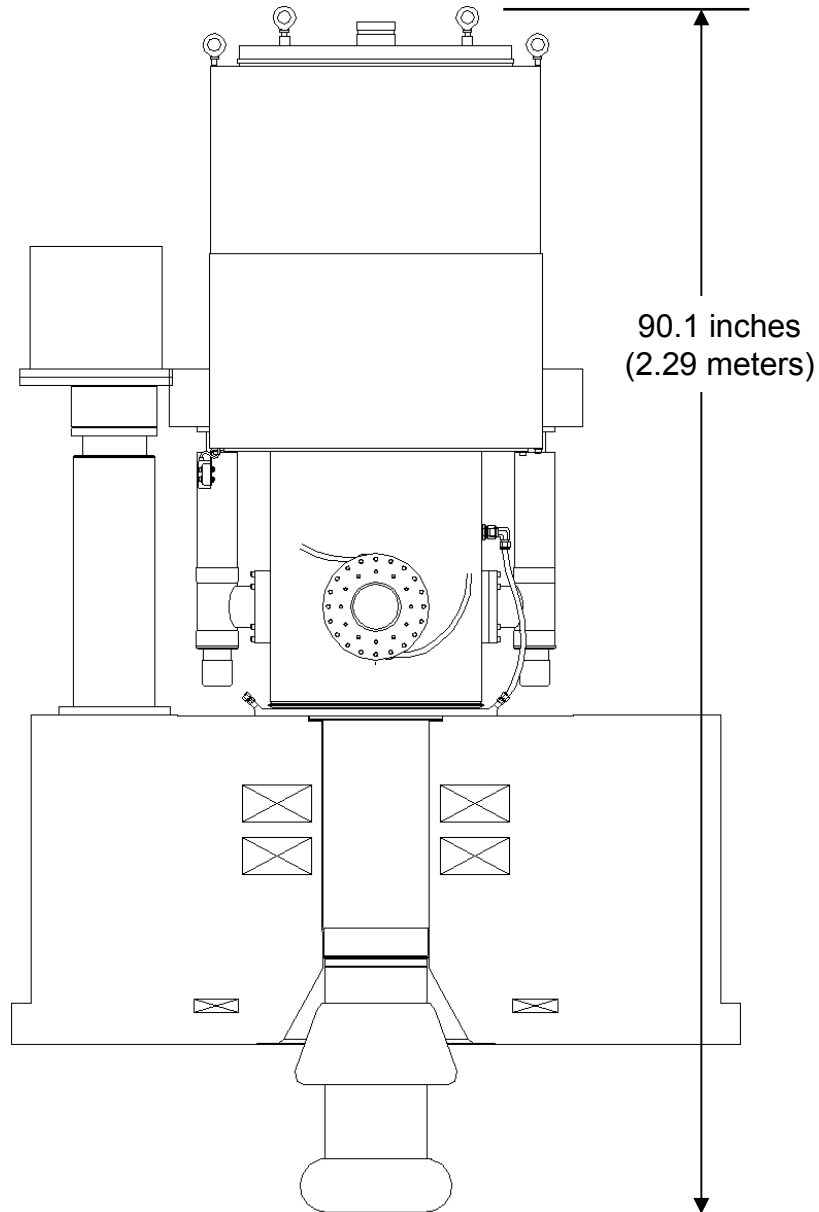


# VGT-8141 Gyrotron Oscillator



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.

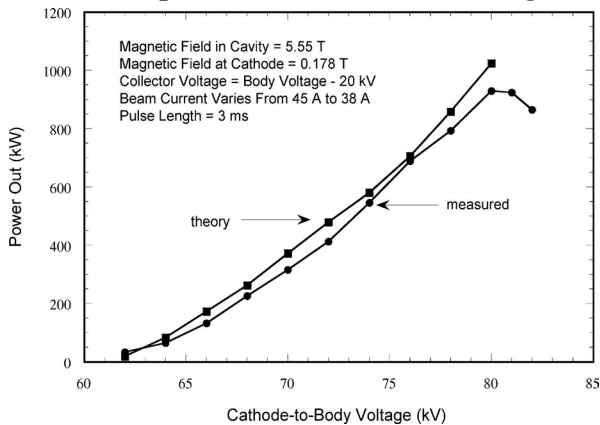
The VGT-8141 gyrotron delivers continuous wave (CW) output power levels up to 900 kW at a frequency of 140 GHz for electron cyclotron heating and current drive in fusion plasmas.



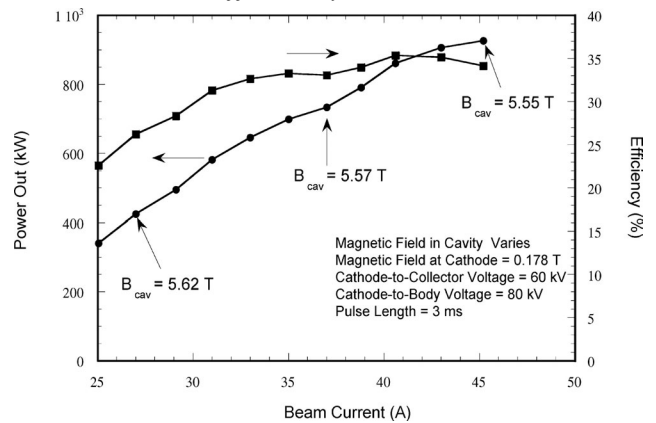
For additional information on gyrotrons, other CPI products, or a copy of our catalog-on-disk, please contact:  
CPI Microwave Power Products, 811 Hansen Way, Palo Alto, CA 94303-0750  
Telephone: 650-846-3172, Fax: 650-856-0705, Email: [marketing@cpil.com](mailto:marketing@cpil.com)

# VGT-8141 Gyrotron Oscillator

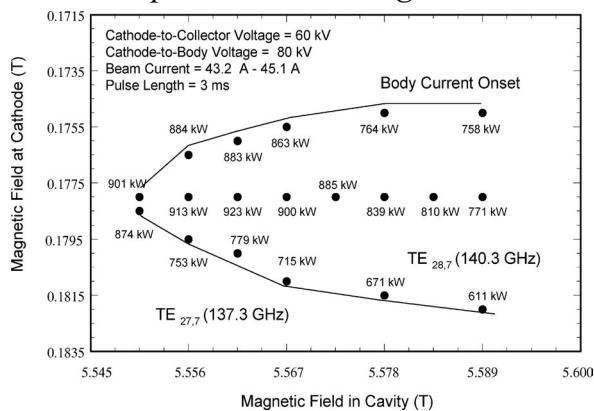
*Output Power vs. Beam Voltage*



*Power & Efficiency vs. Beam Current*



*Output Power vs. Magnetic Field*



## Features

- High Power, Continuous Operation
- Gaussian Output Beam
- CVD Diamond Output Window
- Diode Electron Gun
- Single-Stage Depressed Collector

## Typical Operating Parameters

Power Output	900 kW
Pulse Length	CW
Cathode Voltage	-60 kV
Body Voltage	20 kV
Beam Current	40 A
Frequency	140±0.3 GHz
Efficiency	35%
Output Mode	TEM <sub>00</sub>

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