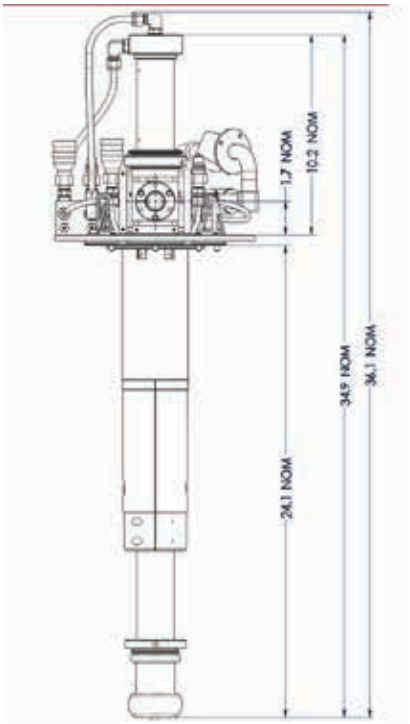
25 W Gyrotron CW Oscillator

VGY-8026

Communications & Power Industries Gyrotron Oscillator



CPI-MPP provides an extensive line of gyrotrons that generate frequencies from 28 to 263 GHz with power levels ranging from 25 W to 1.4 MW. High power, long-pulse/CW gyrotrons are employed primarily for fusion plasma heating and current-drive.

Lower-power devices are employed for a wide variety of scientific, industrial, and defense applications. The VGY-8026 gyrotron delivers 25 W of continuous output power at a frequency of 263 GHz, and allows for frequency tuning of ±50 MHz relative to the nominal center frequency.

FEATURES:

- Continuous wave (CW) operation
- Stable output power and frequency (requires suitable control system)
- ±50 MHz frequency tuning
- Diode electron gun
- Operates in a 10 Tesla superconducting magnet with a Ø3.5" (89mm) warm bore

BENEFITS:

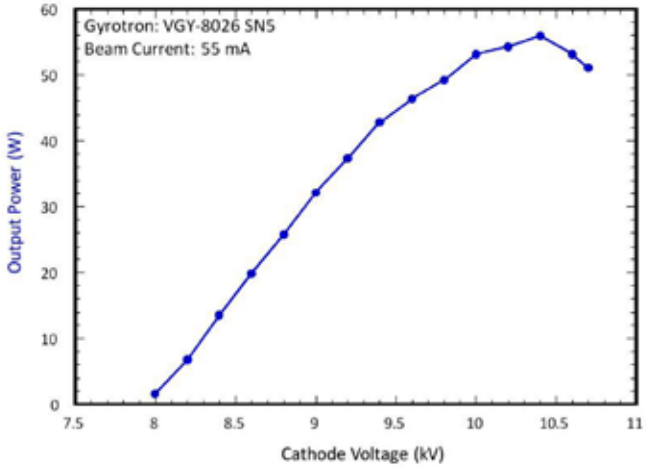
- Tunable
- High power

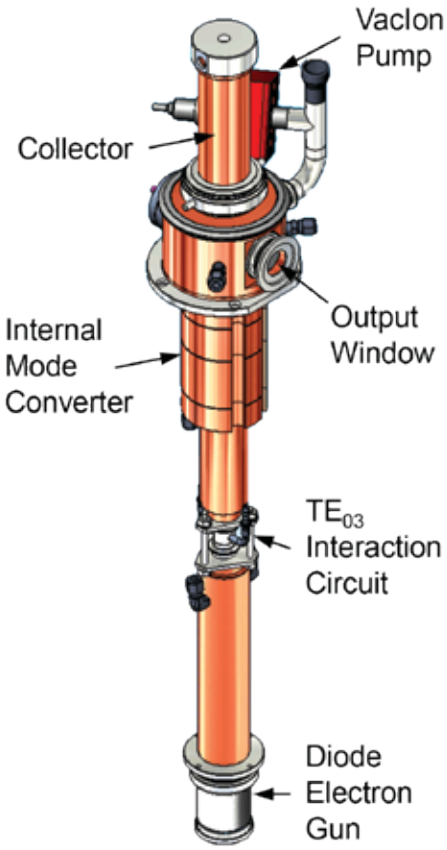
APPLICATIONS:

- Radar
- Dynamic Nuclear Polarization
- Industrial heating
- Spectroscopy

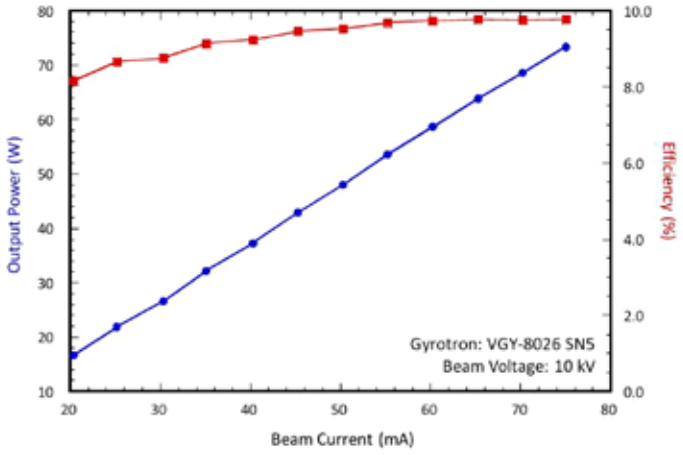
CPI 25 W Gyrotron CW Oscillator: VGY-8026

Output power vs Cathode voltage





Output power vs Beam current



Typical Operating Parameters

Power output	>25 W
Pulse length	CW
Nominal cathode voltage	10 - 15 kV
Maximum cathode voltage	25 kV
Nominal beam current	~50 mA
Maximum beam current	150 mA
Frequency	263 GHz
Efficiency	1 - 10%
Output mode	TEM 00

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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9/20