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Millimeter Wave: VKB 2445



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MILLIMETER WAVE PULSED EXTENDED INTERACTION OSCILLATOR

VKB 2445 SERIES 93 - 96 GHz

DESCRIPTION

The VKB 2445 series of Pulsed Extended Interaction Oscillators (EIO) are targeted for W-Band radar and scientific instrumentation applications. Each EIO delivers peak output power in excess of 1 kW and has a typical electronic tuning range of 200 MHz.

The VKB 2445 series of EIO's are grid controlled. They can be integrated with the CPI VPW 2882/2884 series of power conditioners to form a compact self-contained and cost effective transmitter subsystem where high reliability, small size and weight are prime considerations.



TYPICAL ELECTRICAL PERFORMANCE

- Center Frequency: 93.8 GHz
- Peak Output Power: 1.4 kW
- Duty Cycle: 0.5%
- Electronic Tuning: (-3dB) 200 MHz
- Mech. Tuning Range: ± 1 GHz
- Pulse Width: up to 20 μ s
- Cathode Voltage: 20.3 kV
- Peak Cathode Current: 690 mA
- Grid Pulse Voltage: 3.1 kV

OPTIONS

- Liquid Cooling
- Duty up to 10%
- Higher Peak Power
- Fixed Frequency
- Mechanical Tuning up to 4 GHz
- Motorized Tuning
- Environmental Stress Screening

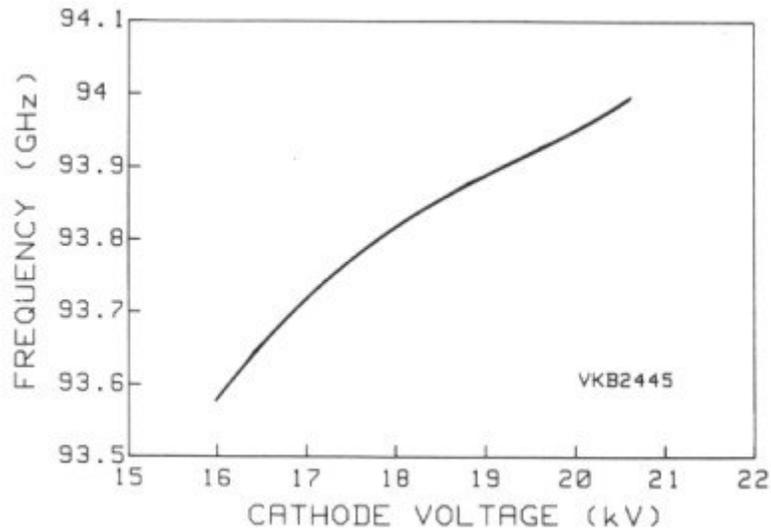
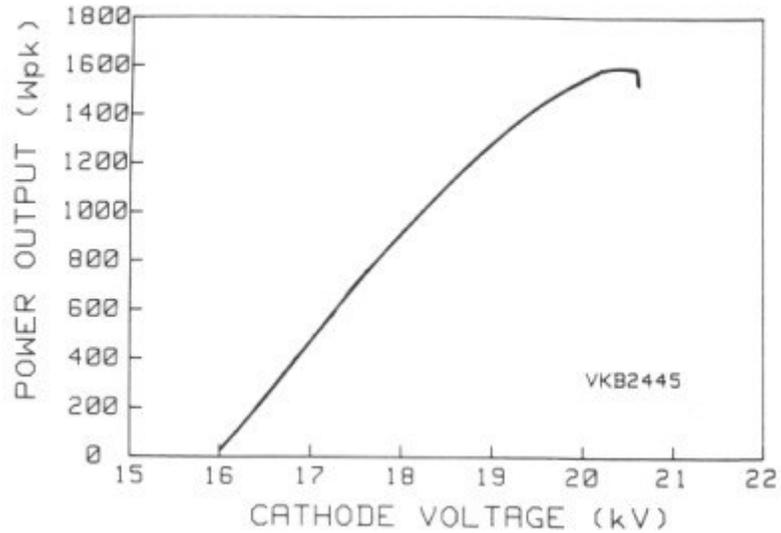
MECHANICAL

- Waveguide: WR-10 (2.54 x 1.27 mm)
- Flange: Mates with UG 387/U Mod
- Elec. Connections: Flying Leads
- Weight: 2 Kg type.
- Cooling: Forced Air

TYPICAL ENVIRONMENT

- Laboratory
- Temperature Range
Operating 0 to +60°C
Non-Operating -37 to +85°C
- Altitude
Operating up to 1,500 m
Non-operating up to 12,000 m

TYPICAL CHARACTERISTICS



NOTES:

1. Characteristic values are based on performance tests. These values may change without notice.
2. Please consult your local CPI sales office or CPI Canada for more information.

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