

HIGH POWER MMW OSCILLATOR WITH MANUAL TUNING, 120 - 140 GHz MODEL SERIES VKT 2438L

DESCRIPTION

The VKT 2438L series of manually tuned CW Extended Interaction Oscillators (EIOs) are targeted for F-Band radar and scientific instrumentation applications.

This EIO delivers output power in excess of 10 W over a 3 GHz tuning range and has a typical electronic tuning range of 200 MHz.

The VKT 2438L series of EIOs can be integrated with the VPW2827 series of power supply to provide a highly stable and low noise source.



TYPICAL ELECTRICAL PERFORMANCE

- Center Frequency: 140 GHzCW Output Power: 12 W
- · Mech. Tuning Range: ± 1.5 GHz · Electronic Tuning: (-3dB) 200 MHz
- Cathode Voltage: 9.8 kV
 Cathode Current: 100 mA
 Anode Voltage: 6.1 kV

TUNING OPTIONS

- · Fixed Frequency, Trimable or Tunable
- Motorized Tuning
- 12V, 0.26 Amp DC electrical motor tuner position indicated by 10 KOhm and 10 turn potentiometer.

MECHANICAL

- · Waveguide: WR-8 (2.032 x 1.02 mm)
- · Flange: Mates with UG 387/U Mod
- · Elec. Connections: Flying Leads
- · Weight: 4.0 Kg typ.
- Cooling: Liquid, Flow Rate 1.5 I/minute min. Input Water Temperature 30.0 °C max.

TYPICAL ENVIRONMENT

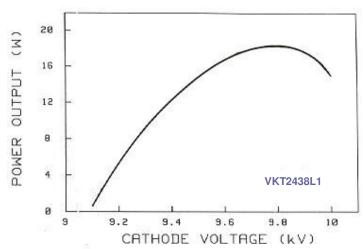
- · Laboratory/Wheeled Vehicle
- · Temperature Range:

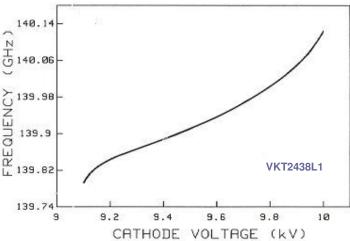
Operating: 0 to +60 ℃

Non-Operating: -37 to +85 ℃

· Altitude:

Operating: up to 1,500 m Non-operating: up to 12,000 m





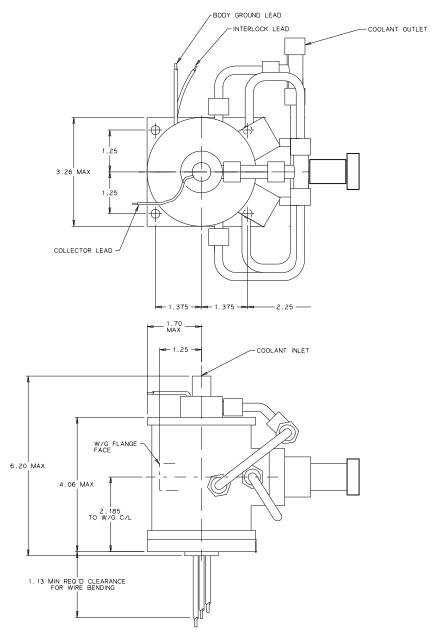
NOTES:

- 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.



OUTLINE DRAWING

for reference only



For further information please contact CPI Canada, a field office or local representative they may be found on our web site at:

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