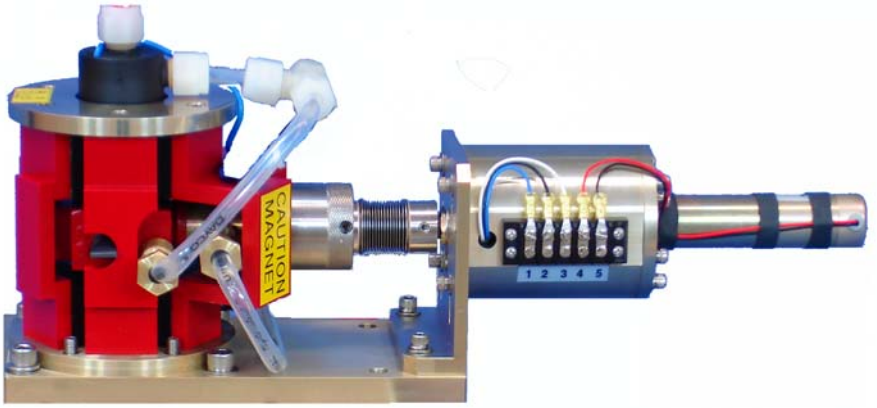
Communications & Power Industries

communications & medical products division
microwave operation

HIGH POWER MOTOR TUNED MMW OSCILLATOR
120 - 140 GHz
MODEL SERIES VKT 2438P

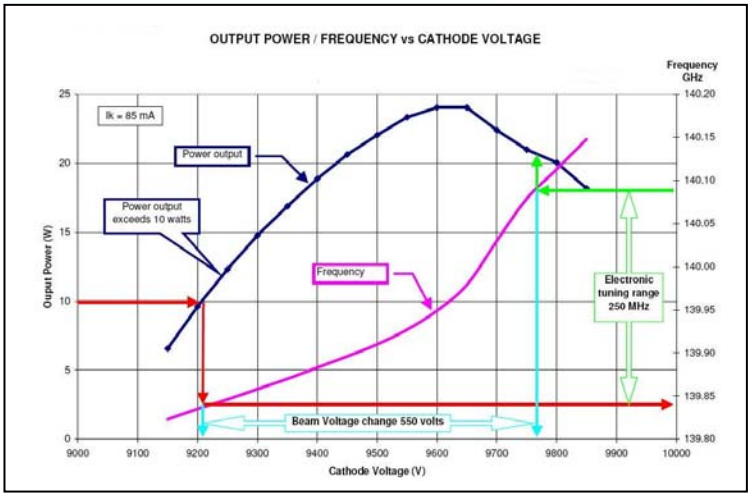
DESCRIPTION

The VKT 2438P series of electric motor tuned CW Extended Interaction Oscillators (EIO) are targeted for F-Band radar and scientific instrumentation applications.
Each EIO delivers output power in excess of 20 W over a 2 GHz tuning range and has a typical electronic tuning range of 200 MHz.
The VKT 2438P 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 GHz
· CW Output Power: 20 W
· Mech. Tuning Range: ± 1.0 GHz
· Electronic Tuning: (-3dB) 200 MHz
· Cathode Voltage: 9.8 kV
· Cathode Current: 100 mA
· Anode Voltage: 6.1 kV

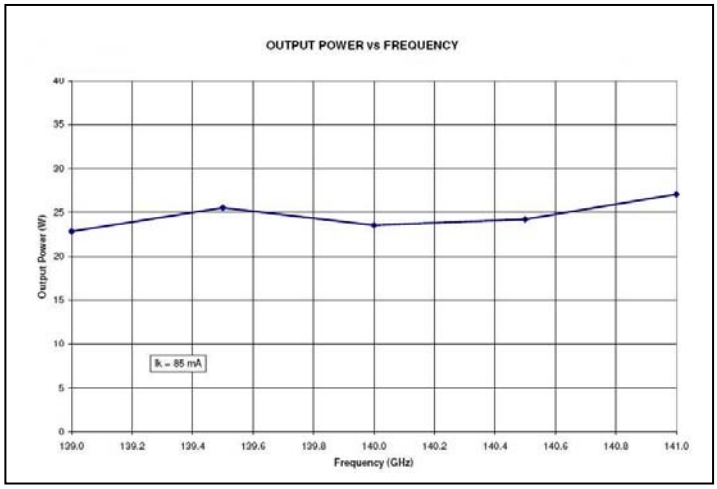


OPTIONS

· Fixed Frequency, Trim tuned, manual tuning
· 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 l/minute min.
Input Water Temperature 30.0 °C max.



TYPICAL ENVIRONMENT

· Laboratory/Wheeled Vehicle
· 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

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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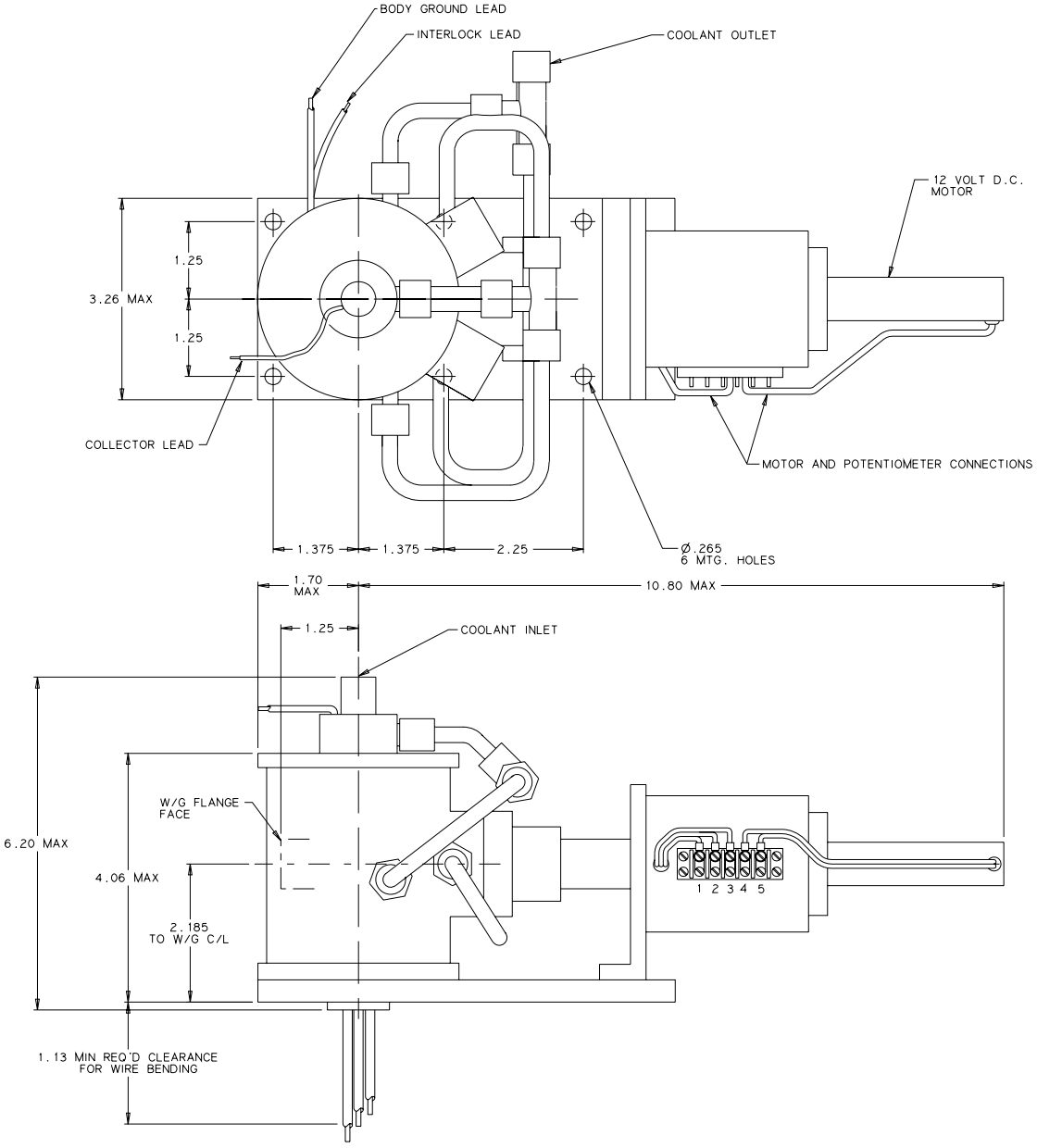
OUTLINE DRAWING

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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