

C-BAND KLYSTRONS

VKC 7988 B2 TROPOSCATTER COMMUNICATIONS SERIES

The VKC7988 Klystrons Series are designed for use in *cost* effective ground communications systems, which exploit the troposphere scattering effects at microwave frequencies, including mobile communication systems.

These four cavities klystrons are CW operation, tunable in the 4.4 to 5.0 GHz frequency range by using a tuning mechanism with no requirement for complex external monitoring equipment.



RF and Electrical Characteristics

Frequency Range (Channel Centers)

Frequency Range
Instantaneous Bandwidth (-1 dB)
Output Power – minimum
Gain – minimum
Beam Voltage - maximum
Beam Current – maximum
Heater Voltage – maximum
Heater Current – maximum

4.400 to 5.000 GHz
14 MHz
2600 W
40 dB
8.6 kV (typical: 8.4 kVDC)
0.840 A (typical: 0.805 A)
6.0 V (typical: 5.0 V)
7.2 A (typical: 5.6 A)

Physical Characteristics

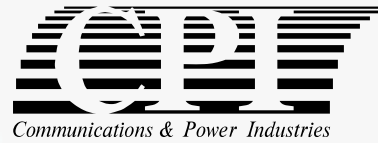
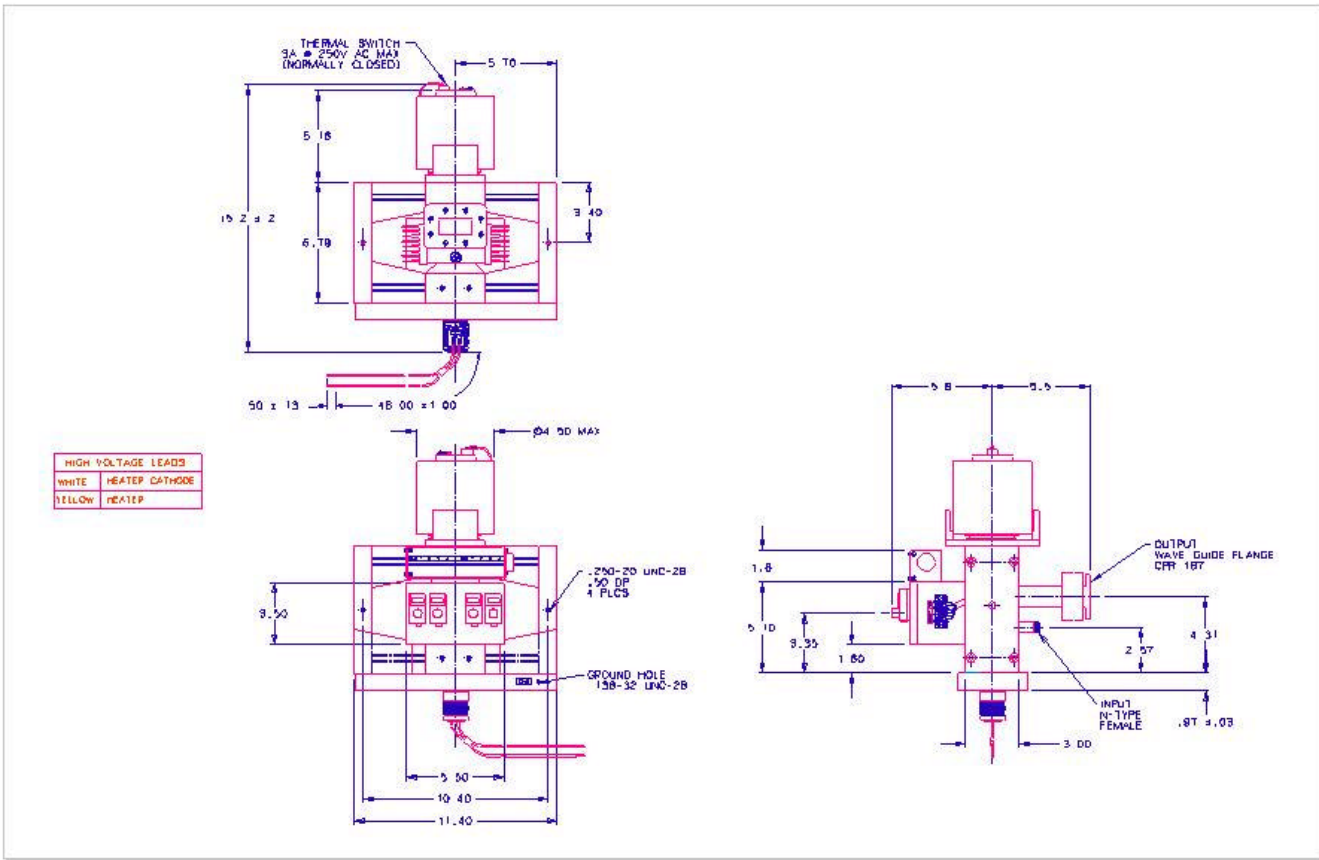
Dimensions
Weight – approximate
Operating Orientation
Cooling
Collector Flow – minimum
Body Flow – minimum
RF Connectors:

Output: Mates with
Input: Mates with

Focusing

See outline drawings (back page)
64 lb (29 kg)
Collector Up recommended
Forced Air
1000 lb/h (460 kg/h)
90 lb/h (41 kg/h)

CPR-187 or equivalent
Coaxial Type “N” plug, UG-21D/U or equivalent
Integral permanent magnet



For complete information klystrons used in satellite communications, please contact your local CPI office, or CPI Canada Inc.

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