

# 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

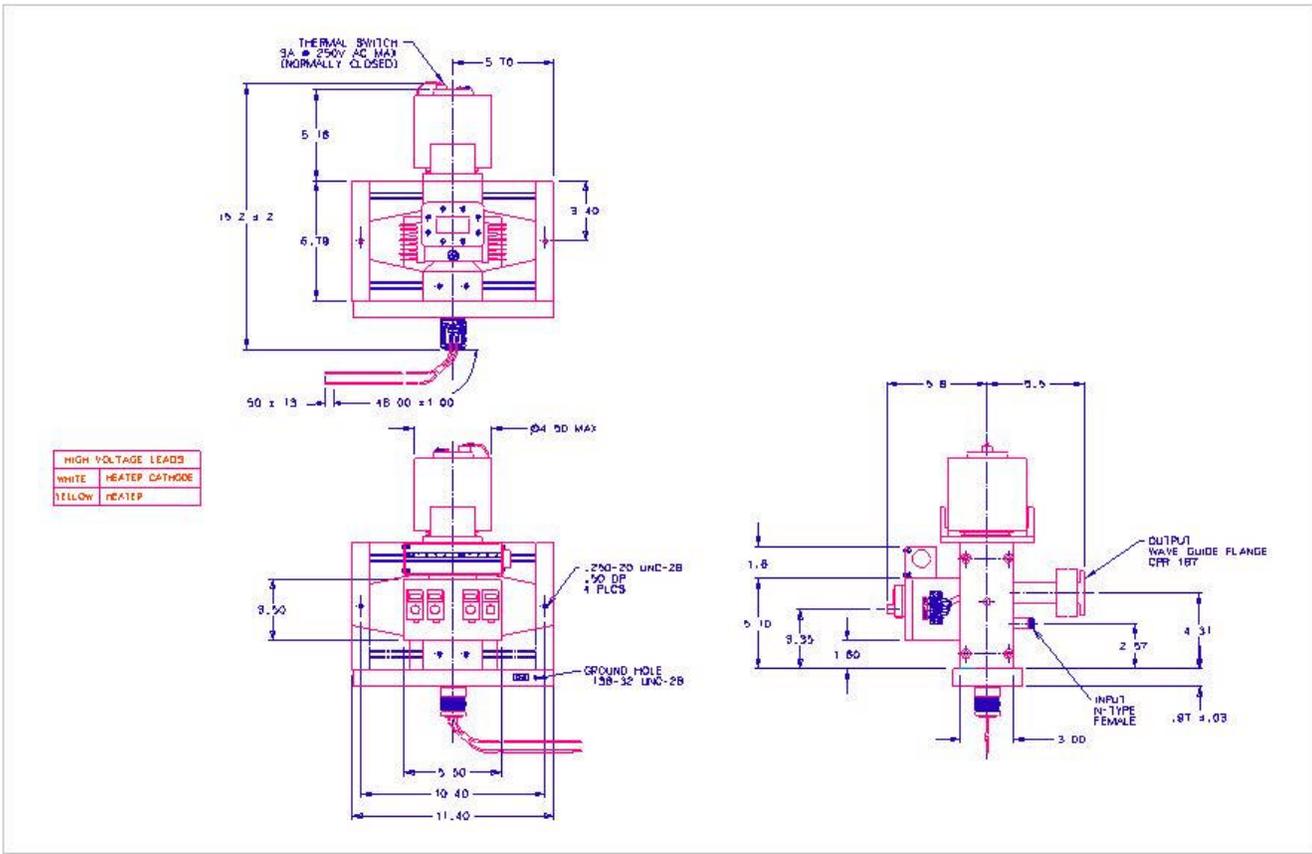
Dimensions  
Weight – approximate  
Operating Orientation  
Cooling  
Collector Flow – minimum  
Body Flow – minimum  
RF Connectors:

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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