Model VKB2461 is a series of conduction cooled pulsed Extended Interaction Klystrons used for radar, instrumentation and scientific applications.

Frequencies are available from 93 GHz to 96 GHz typically producing 1500 Watts peak power with a 1dB bandwidth of 280 MHz. This high gain vacuum electron device is remarkably compact, exceptional reliability and has a highly stable output.

The VKB2461 series of EIKs may be integrated with the CPI VPW3493 series of power supply/modulators resulting in a compact self-contained and highly reliable transmitter subsystem.

<table>
<thead>
<tr>
<th>Features</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency Range</td>
<td>93 to 96 GHz</td>
</tr>
<tr>
<td>Power Output (Peak)</td>
<td>1,500 W</td>
</tr>
<tr>
<td>Bandwidth (-1dB)</td>
<td>280 MHz</td>
</tr>
<tr>
<td>Drive Power Saturation</td>
<td>5 mW</td>
</tr>
<tr>
<td>Cathode Voltage</td>
<td>-16.5 kV</td>
</tr>
<tr>
<td>Cathode Current</td>
<td>600 mA</td>
</tr>
<tr>
<td>Temperature Operating</td>
<td>0 to +50 °C</td>
</tr>
<tr>
<td>Temperature Non-operating</td>
<td>-40 to +60 °C</td>
</tr>
<tr>
<td>Humidity</td>
<td>95% relative non-condensing</td>
</tr>
<tr>
<td>Altitude</td>
<td>3,000 m</td>
</tr>
</tbody>
</table>

**Pulse Capability**

<table>
<thead>
<tr>
<th>Feature</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pulse Voltage</td>
<td>+3.0 kV</td>
</tr>
<tr>
<td>Pulse Width</td>
<td>Up to 15 µs</td>
</tr>
<tr>
<td>Duty Cycle</td>
<td>Up to 6%</td>
</tr>
<tr>
<td>Rise/Fall Time</td>
<td>10 ns</td>
</tr>
</tbody>
</table>

The values listed represent typical performance. Formal controlled specifications for use in equipment design may be obtained from CPI CANmarketing@cpii.com www.cpii.com +1-905-877-0161
**Options**

- Fixed Center Frequency in the range of 93 – 96 GHz
- Space Qualified and Air-borne EIKs
- Power Supply, DC or AC Prime Power
- Duty Cycle up to 6%

**Mechanical**

- Waveguides: WR-10
- Flanges: Rectangular, compatible with UG-387/U
- Power Supply Connections: Color Coded Flying Leads 450 mm Max. Length
- Weight: 7.0 kg Max.