# Product Selector

## Laser Driver ICs

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Switch/Sink</th>
<th>CW/TX Power Controller</th>
<th>CW Power Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>iC-HB</td>
<td>3.5 to 5.5 V</td>
<td>3.5 to 5.5 V</td>
<td>2.4 to 6 V</td>
</tr>
<tr>
<td>iC-HG</td>
<td>3 to 5.5 V</td>
<td>3 to 5.5 V</td>
<td>3.6 to 15 V</td>
</tr>
<tr>
<td>iC-HK</td>
<td>3.5 to 5.5 V</td>
<td>3.5 to 5.5 V</td>
<td>70 mA</td>
</tr>
<tr>
<td>iC-HT</td>
<td>B: 3 to 5 V (15 V)</td>
<td>3 x 700 mA</td>
<td>350 mA</td>
</tr>
<tr>
<td>iC-NZ</td>
<td>6 x 500 mA</td>
<td>2 x 1500 mA</td>
<td>CW</td>
</tr>
<tr>
<td>iC-NZN</td>
<td>3 x 0.3 Apeak</td>
<td>6 x 700 mA</td>
<td>CW</td>
</tr>
<tr>
<td>iC-VJ</td>
<td>2 x 1500 mA</td>
<td>3 x 100 mAdc, 1.5 ns</td>
<td>CW</td>
</tr>
<tr>
<td>iC-WJB</td>
<td>2 x 0.7 Apeak</td>
<td>3 x 100 mAdc, 1.5 ns</td>
<td>CW</td>
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<tr>
<td>iC-WJ</td>
<td>2 x 750 mAdc, 1.5 ns</td>
<td>3 x 100 mAdc, 1.5 ns</td>
<td>CW</td>
</tr>
<tr>
<td>iC-WK</td>
<td>3 x 0.3 Apeak</td>
<td>3 x 100 mAdc, 1.5 ns</td>
<td>CW</td>
</tr>
<tr>
<td>iC-WKN</td>
<td>3 x 0.3 Apeak</td>
<td>3 x 100 mAdc, 1.5 ns</td>
<td>CW</td>
</tr>
</tbody>
</table>

### Specifications

- **Supply Voltage**
  - Switch/Sink: 3.5 to 5.5 V, 3 to 5.5 V
  - CW/TX Power Controller: B: 3 to 5 V (15 V), CW
- **LD Drive**
  - 3 x 65 mAdc, 3 x 0.3 Apeak
  - 6 x 500 mA, 2 x 1500 mA
- **Operation**
  - CW to 155 MHz (tr/f < 1 ns)
  - CW to 200 MHz (tr/f < 1 ns)
  - CW to 155 MHz (tr/f 1.5 ns)
- **Adjustable APC**
  - n/a
- **Monitor Current**
  - 2.9 µA to 3.5 mA
- **Protective Circuits**
  - Reverse Polarity
  - Burst/Transients
  - Overcurrent
  - Thermal Shutdown
  - Undervoltage Lockout
- **LD Pinout**
  - n/a
  - N, M (iC-HT)
  - N, M, P
- **Special Features**
  - High-speed spike-free switching, LVDS inputs, current monitor output
  - High-speed spike-free switching
  - High-speed spike-free switching, LVDS inputs
- **Applications**
  - Laser printers
  - Laser TV
  - LED drivers, displacement sensors, safety light scanners (area-guarding systems, safeguarding access to machines)
  - Laser pointer, Pump laser, laser diode modules, embedded laser diode controllers, safety related laser controller
  - Laser diode transmission, bar-code readers, triangulation sensors, displacement sensors, safety light scanners (area-guarding systems, safeguarding access to machines)
  - Laser data transmission, bar-code readers, triangulation sensors, displacement sensors, safety light scanners (area-guarding systems, safeguarding access to machines)
  - Laser data transmission, bar-code readers, triangulation sensors, displacement sensors, safety light scanners (area-guarding systems, safeguarding access to machines)
  - Leveling lasers, laser alignment tools, laser pointers, bar-code readers, triangulation sensors, displacement sensors, safety light scanners (area-guarding systems, safeguarding access to machines)

### Additional Information

- **Switch/Sink**
  - CW/TX Power Controller: 3.5 to 5.5 V, 3 to 5.5 V
  - CW Power Controller: 2.4 to 6 V, 3.6 to 15 V
- **Supply Voltage**
  - Switch/Sink: 3.5 to 5.5 V, 3 to 5.5 V
  - CW/TX Power Controller: B: 3 to 5 V (15 V), CW
  - CW Power Controller: 70 mA, 350 mA
- **LD Drive**
  - 3 x 65 mAdc, 3 x 0.3 Apeak
  - 6 x 500 mA, 2 x 1500 mA
- **Operation**
  - CW to 155 MHz (tr/f < 1 ns)
  - CW to 200 MHz (tr/f < 1 ns)
  - CW to 155 MHz (tr/f 1.5 ns)
- **Adjustable APC**
  - n/a
- **Monitor Current**
  - 2.9 µA to 3.5 mA
- **Protective Circuits**
  - Reverse Polarity
  - Burst/Transients
  - Overcurrent
  - Thermal Shutdown
  - Undervoltage Lockout
- **LD Pinout**
  - n/a
  - N, M (iC-HT)
  - N, M, P
- **Special Features**
  - High-speed spike-free switching, LVDS inputs, current monitor output
  - High-speed spike-free switching
  - High-speed spike-free switching, LVDS inputs
- **Applications**
  - Laser printers
  - Laser TV
  - LED drivers, displacement sensors, safety light scanners (area-guarding systems, safeguarding access to machines)
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### Application Notes for Laser Driver

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