**Infini-Light™**

**Near-Infrared Stabilized Broadband Fiber-Optic Light Source**

**System Overview**

The Infini-Light™ Stabilized Broadband Source provides a broadband stable light source over a wide wavelength range within the near infrared range for non-telecom applications. It incorporates highly accurate control of high-power luminescence, semiconductor diode sources to achieve superior stability. High speed external modulation allows the use of lock-in amplifiers for high sensitivity measurement and data communications. And the high power and broadband enhance the quality of optical coherence tomography in the medical applications.

**Optical Specifications**

<table>
<thead>
<tr>
<th>Wavelength Peak Option</th>
<th>680nm</th>
<th>800nm</th>
<th>980nm</th>
<th>1060nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Power Density (dBm/nm)</td>
<td>&gt;-23</td>
<td>&gt;-25</td>
<td>&gt;-20</td>
<td>&gt;-20</td>
</tr>
<tr>
<td>Total Output Power (mW)</td>
<td>&gt;0.5</td>
<td>&gt;0.5</td>
<td>&gt;1.5</td>
<td>&gt;1.5</td>
</tr>
<tr>
<td>Power Stability (15min)</td>
<td>&lt;0.02dB</td>
<td>&lt;0.02dB</td>
<td>&lt;0.02dB</td>
<td>&lt;0.02dB</td>
</tr>
</tbody>
</table>

**Mechanical and Electrical Specifications**

Dimensions: L200xW157xH61 mm.

Weight: < 5 lb.

Enclosure: ABS Case  Metal Front Panel.

Optical Connector: FC/APC.

Input Power: 100-240VAC/5VDC Adaptor.

External Tuning: Front Panel Tuning Knob.

Operating Temp.: 10 – 40 °C

**Applications**

Material Absorption Spectroscopy.

WDM Components Manufacturing and Testing.

Telecomm and Datacomm Systems.

Optical Coherence Tomography.

Optical Fiber Sensors.

**Ordering Information**

Model Number: IRBL-NIR-xxxx.

680nm: xxxx=0680.
800nm: xxxx=0800.
980nm: xxxx=0980.
1060nm: xxxx=1060.

* Output optical isolator optional depending on availability.