FLEXPOINT®
532 nm Green Laser Module

Features
- Small housing
- 10 times more visible to the eye than red lasers with same power
- Wide operating voltage range
- Many options / customized solutions
- Focusable

Options
- Modulation
- Power adjustment via control wire or potentiometer
- Laser head and electronics in separate housings for limited space

Beam Profile
- circular
- line
- cross hair

Green Dot Laser
FLEXPOINT® 532 nm Green Laser Module

Green Line Laser

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength</td>
<td>532 nm</td>
</tr>
<tr>
<td>Output power, max.</td>
<td>1 mW / 4 mW / 10 mW</td>
</tr>
<tr>
<td>Output power stability</td>
<td>&lt; 5 % after warm-up at 25 °C</td>
</tr>
<tr>
<td>Beam divergence</td>
<td>&lt;= 1 mrad (0.5 mrad as option)</td>
</tr>
<tr>
<td>Output beam diameter</td>
<td>&lt;= 1.5 mm</td>
</tr>
<tr>
<td>Fan angle (for line lasers)</td>
<td>10 – 100° (factory set)</td>
</tr>
<tr>
<td>Beam angle error</td>
<td>&lt;= 1°</td>
</tr>
<tr>
<td>Operating mode</td>
<td>cw</td>
</tr>
<tr>
<td>Mode</td>
<td>TEM_{00}</td>
</tr>
<tr>
<td>Life time typ.</td>
<td>5000 hrs (at &lt;= 4 mW)</td>
</tr>
<tr>
<td>Input voltage</td>
<td>5 – 30 VDC with reverse voltage protection</td>
</tr>
<tr>
<td>Operating current</td>
<td>&lt;= 300 mA</td>
</tr>
<tr>
<td>Modulation frequency (as option)</td>
<td>Max. 3 kHz</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>15 – 35 °C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-10 to +60 °C</td>
</tr>
<tr>
<td>Mechanical</td>
<td>length = 57 mm, Ø 11.5 mm</td>
</tr>
<tr>
<td></td>
<td>(l &gt;= 67 mm for line lasers and 0.5 mrad option)</td>
</tr>
<tr>
<td>Housing material</td>
<td>anodised aluminium, supply voltage not connected to housing</td>
</tr>
</tbody>
</table>

Germany & Other Countries
Laser Components GmbH
Tel: +49 8142 2864 – 0
Fax: +49 8142 2864 – 11
info@lasercomponents.com
www.lasercomponents.com

USA
Laser Components USA, Inc.
Tel: +1 603 821 – 7040
Fax: +1 603 821 – 7041
info@laser-components.com
www.laser-components.com

United Kingdom
Laser Components (UK) Ltd.
Tel: +44 1245 491 499
Fax: +44 1245 491 801
info@lasercomponents.co.uk
www.lasercomponents.co.uk

France
Laser Components S.A.S.
Tel: +33 1 39 59 52 25
Fax: +33 1 39 59 53 50
info@lasercomponents.fr
www.lasercomponents.fr
Ordering Code FLEXPOINT® 532 nm Dot Lasers

<table>
<thead>
<tr>
<th>FP</th>
<th>D</th>
<th>532</th>
<th>XXX</th>
<th>X</th>
<th>C</th>
<th>X</th>
<th>Options</th>
</tr>
</thead>
</table>

- **FP**
- **D**
- **532**
- **XXX**
- **X**
- **C**
- **X**
- **Options**

**Power Options**
- **P** = Potentiometer integrated (Power Adjustment)
- **D** = Dimmable by third wire (Power Adjustment)
- **M** = Modulation, digital
  - **0 V** = laser on
  - **5 V** = laser off

**Beam Profile**
- **C** = Circular

**Focus (x in mm)**
- **X**

**Examples:**
- Cable length
- Connector
- Housing size
- Spot size
- Supply voltage
- OEM customer name
- Working distance

**Standard Modules (Selection)**

<table>
<thead>
<tr>
<th>Ordering Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP-D-532-1-C-F</td>
<td>(532 nm, 1 mW, circular beam, focusable)</td>
</tr>
<tr>
<td>FP-D-532-4-C-F</td>
<td>(532 nm, 4 mW, circular beam, focusable)</td>
</tr>
<tr>
<td>FP-D-532-10-C-F</td>
<td>(532 nm, 10 mW, circular beam, focusable)</td>
</tr>
</tbody>
</table>

Ordering Code FLEXPOINT® 532 nm Line Lasers

<table>
<thead>
<tr>
<th>FP</th>
<th>L</th>
<th>532</th>
<th>XXX</th>
<th>X</th>
<th>XX</th>
<th>X</th>
<th>Options</th>
</tr>
</thead>
</table>

- **FP**
- **L**
- **532**
- **XXX**
- **X**
- **XX**
- **X**
- **Options**

**Power Options**
- **P** = Potentiometer integrated (Power Adjustment)
- **D** = Dimmable by third wire (Power Adjustment)
- **M** = Modulation by third wire (digital)
  - **0 V** = laser on
  - **5 V** = laser off

**Fan Angle (degree)**
- **10**
- **to**
- **100**

**Focus (x in mm)**
- **X**

**Examples:**
- Cable length
- Connector
- Housing size
- Line width
- Supply voltage
- OEM customer name
- Working distance
FLEXPOINT® 532 nm Green Laser Module

Standard Modules (Selection)

<table>
<thead>
<tr>
<th>Model</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPL-532-1-50-C</td>
<td>(532 nm, 1 mW, 50° fan angle, collimated)</td>
</tr>
<tr>
<td>FPL-532-4-50-C</td>
<td>(532 nm, 4 mW, 50° fan angle, collimated)</td>
</tr>
</tbody>
</table>

Improved safety through control loop for laser class 2 and 3R.

To ensure the maximum lifetime of the laser module, please use a heat sink, which is available as option (housing temperature ≤ 35 °C).

The laser modules are equipped with a temperature dependent shut down which protects the laser from overheating. After cooling down and switching on the power supply again the laser will work again.

FLEXPOINT® laser diode modules are designed for use in OEM products. Depending on their usage their original classification may be altered (labels are attached). It is the responsibility of the OEM to ensure compliance with relevant safety standards and proper labelling.

All specifications subject to change without notice.