

# LIMO35-F100-DL808-EX2009

High Power Diode Laser



## Your product benefits:

- Plug and play fiber connector
- High e/o efficiency
- Hermetically sealed housing
- 100% emitter and fiber incoming inspection
- 100% laser outgoing inspection

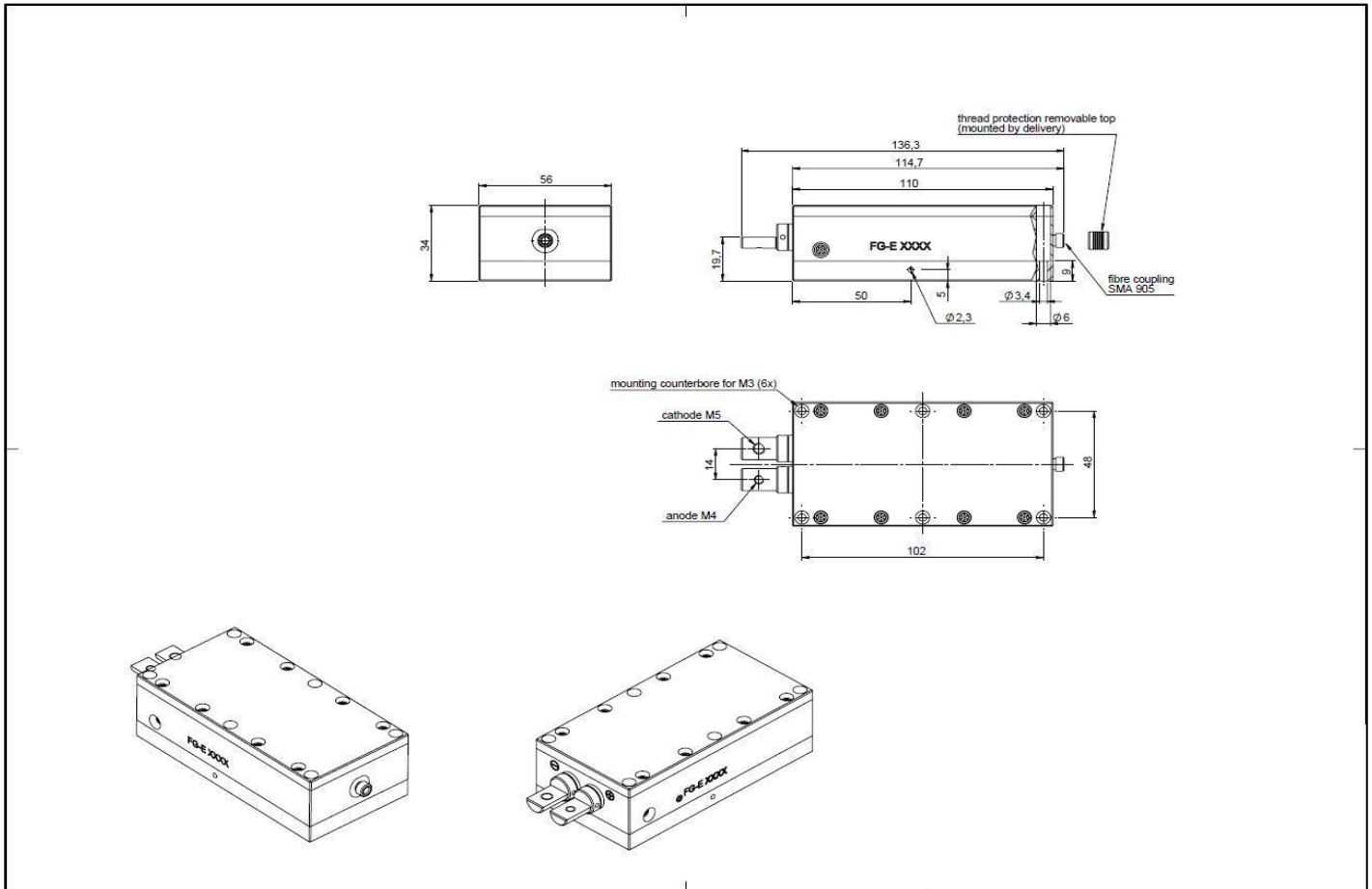
| Photonics Solutions |

LIMO laser and optics designed and engineered in Germany

| Laser Module                                    | Unit | Value         | Unit                         | Value                     |
|---|------|---------------|------------------------------|---------------------------|
| <b>Optical Data</b>                             |      |               | <b>Fiber Connection Data</b> |                           |
| CW - nominal output power                       | W    | 35            | Fiber core diameter          | μm 100                    |
| Center wavelength                               | nm   | 808           | Numerical aperture           | 0,22                      |
| Wavelength tolerance (±)                        | nm   | 4             | Fiber - optic connector      | SMA                       |
| Spectral width (FWHM)                           | nm   | 4             | Cladding mode (max)          | % not specified           |
| Wavelength temperature drift                    | nm/K | 0,3           |                              |                           |
| <b>Thermal Operation Conditions</b>             |      |               | <b>Package</b>               |                           |
| Nominal baseplate temperature                   | °C   | 20            | Dimensions                   | mm <sup>3</sup> 110x56x34 |
| Diode heat sink operation temperature           | °C   | +15...30      | Weight basic package         | kg 0,85                   |
| Minimum heat sink capacity                      | W    | 80            | Storage temperature          | °C -20...+60              |
| <b>Electrical Data</b>                          |      |               |                              |                           |
| Max. operation current start of life            | A    | 53            |                              |                           |
| Max. operation current end of life              | A    | 64            |                              |                           |
| Typical threshold current                       | A    | 8             |                              |                           |
| Typical operation voltage                       | V    | 2             |                              |                           |
| Typical slope                                   | W/A  | 0,8           |                              |                           |
| Typical O/E efficiency                          | %    | 39            |                              |                           |
| <b>Additional Features</b>                      |      |               | <b>Monitor Diode</b>         |                           |
| <b>Pilot Beam</b>                               |      |               |                              |                           |
| Output power (min)                              | mW   | Not available | Operation voltage            | V Not available           |
| Wavelength                                      | nm   | Not available | Output signal (min)          | V Not available           |
| Voltage   | V    | Not available | Output signal (max)          | V Not available           |
| Current (max)                                   | mA   | Not available |                              |                           |
| <b>Fiber Detection Sensor (PNP)</b>             |      |               | <b>Other Features</b>        |                           |
| Voltage   | V    | Not available | Temperature sensors          | NTC & PT100               |
| Current (max)                                   | mA   | Not available | Wavelength stabilization     | Not available             |
| <b>Protection Filter</b>                        |      |               |                              |                           |
| High reflection bandwidth<br>( >99.0% s+p pol.) | nm   | 1030...1130   |                              |                           |

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LIMO35-F100-DL808-EX2009 prepared for thermoelectric cooling

All data provided are typically measured with a diode heat sink temperature of 20 °C. All measurements are made with a LIMO reference fiber 100 µm, length 1.5 m, and non AR coated.

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