

Datasheet: Necsel™ Blue NovaLum VHP Laser

These specifications are for the Necsel blue NovaLum VHP package. The centroid of the wavelength spectrum will be within the indicated wavelength range.

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| 0 | |

| Model # | Symbol | Min. (nm) | Typical (nm) | Max. (nm) |
|--------------|--------|-----------|--------------|-----------|
| Blue-VHP-46x | λ | 460 | 464 | 468 |

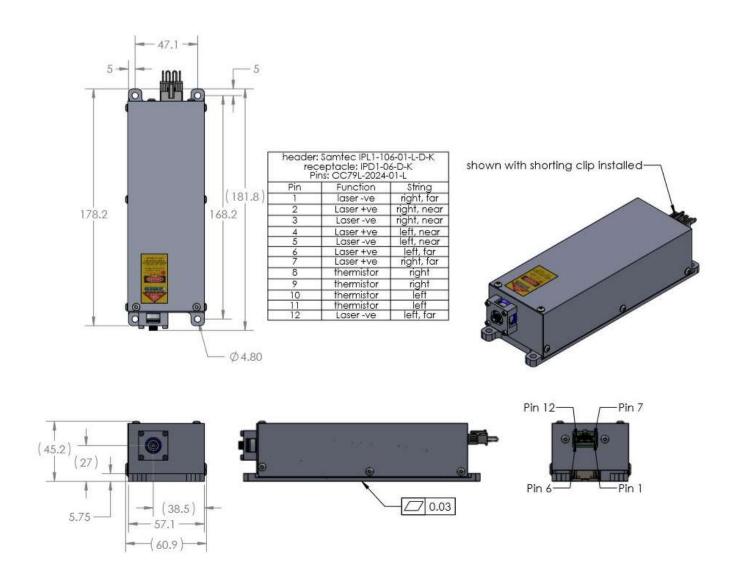
Operating Wavelengths

| Laser Parameter | Symbol | Min. | Typical | Max. | Unit |
|--|------------------|------|---------|------|--------|
| Operating Power (CW) | P_{op} | - | 21 | - | W |
| Module Operating Temperature [non-condensing atmosphere] | $T_{Thermistor}$ | - | 30 | - | °C |
| Center Wavelength [at 25°C and Pop] | λ | 460 | 464 | 468 | nm |
| Wavelength Temperature Coefficient | - | - | 0.1 | - | nm/°C |
| Threshold Current | I_{th} | - | 450 | - | mA |
| Slope Efficiency | η | - | 16.8 | - | W/A |
| Laser Power Conversion Efficiency | PCE | - | 24 | - | % |
| Power Supply Requirements | | | | | |
| Operating Voltage (4 strings in series) | V_{op} | 36 | 52 | 58 | V |
| Operating Voltage per string | V_{op} | 9 | 13 | 14.5 | V |
| Allowable Reverse Current | I_r | - | - | 85 | mA |
| Operating Current | I_{op} | - | 1.7 | 2.0 | Α |
| Fiber Specifications | | | | | |
| Fiber Core Diameter | | | 0.400 | | mm |
| (Centration ≤ 10 um) | | | 0.400 | | 111111 |
| Connector Type | | | | | |
| (Nose length 0.3850 - 0.3863 in., | | | SMA-905 | | |
| 9.779 – 9.812 mm) Numerical Aperture | | | 0.22 | | |





Outline Drawing and Electrical Connections



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