

MDL-E-417.5/1-50mW



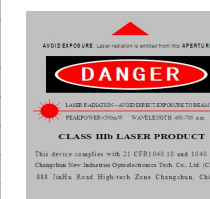
**NARROW LINEWIDTH  
DIODE LASER AT 417.5nm**

It features a narrow spectral linewidth, stable wavelength, long lifetime and easy operation. They are widely used in precision measurement, high resolution spectrum analysis, etc.

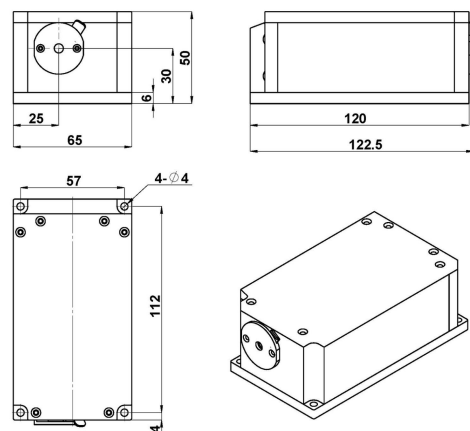


**SPECIFICATIONS**

|                                                       |                                                                     |
|-------------------------------------------------------|---------------------------------------------------------------------|
| Central wavelength (nm)                               | 417.5±0.5                                                           |
| Spectral line width (nm)                              | <0.06, <0.03                                                        |
| Operating mode                                        | CW                                                                  |
| Output power (mW) <sup>1</sup>                        | 1-50                                                                |
| Power stability (rms, 4 hours ± 3°C)                  | <3%, <2%, <1%                                                       |
| Frequency shift (pm) (over ±2°C and 2hrs)             | <20                                                                 |
| Transverse mode                                       | Near TEM <sub>00</sub>                                              |
| M <sup>2</sup>                                        | <1.5                                                                |
| Beam diameter at the aperture (1/e <sup>2</sup> , mm) | ~1.3                                                                |
| Beam divergence, full angle (mrad)                    | <1.5                                                                |
| Polarization ratio                                    | >50:1, (>100:1 optional)<br>Horizontal±5 degree (Vertical optional) |
| Warm-up time (minutes)                                | <5                                                                  |
| Cooled method                                         | Conduction                                                          |
| Beam height from base plate (mm)                      | 30                                                                  |
| Operating temperature (°C)                            | 20-30                                                               |
| Power supply (100-240VAC)                             | PSU-A-D                                                             |
| Expected lifetime (hours)                             | >10000                                                              |



**LASER HEAD**



122.5 (L) × 65 (W) × 50 (H) mm<sup>3</sup>, 1.0kg

**POWER SUPPLY<sup>2</sup>**



162 (L) × 144 (W) × 70 (H) mm<sup>3</sup>, 1.0kg

1 Any power level can be selected in this range.

2 Output power adjustable 10-100%; RS232 control optional.

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