

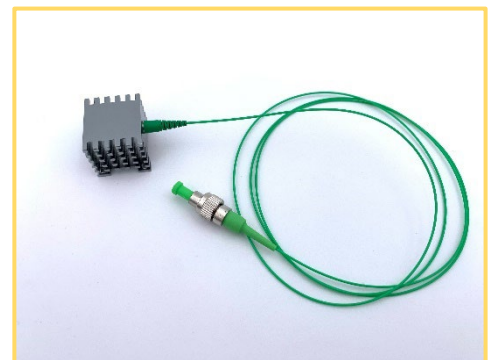
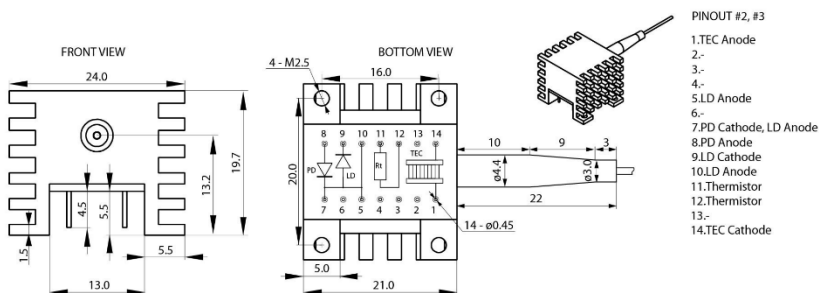
520 nm laser diode

20 mW / singlemode fiber / "hedgehog" package with TEC
(compatible with Butterfly laser diode drivers)

Reference: 520LD-1-0-0-(1=SMF/2=PM)

| SPECIFICATIONS | Unit | Min | Typ | Maximum |
|---|---|-----|-------|---------------|
| Output Power | mW | 20 | | |
| Center Wavelength | nm | 515 | 520 | 530 |
| Spectral Width (FWHM) | nm | | 1 | 3 |
| Threshold Current | mA | | 65 | 80 |
| Operating Current (*absolute maximum rating) | mA | | 150 | 180 (190)* |
| Operating Voltage | V | | 6.5 | 7.5 |
| Wavelength shift w Temperature | nm/°C | | 0.2 | |
| Wavelength shift w Current | nm/A | | 2 | |
| Internal photodiode responsivity | mA/W | 5 | 25 | 50 |
| TEC current (25°/case@70°) | A | | 1.1 | 1.4 |
| TEC voltage (25°/case@70°) | V | | 2.0 | 3.9 |
| Internal thermistor (25°) <i>Rt=10*EXP(3600*{1/T(K)-1/298}) kΩ</i> | kΩ | 9.5 | 10 | 10.5 |
| Fiber type (OPTION 1 : PM fiber) | S405-XP or equivalent (PM460-XP or equivalent) | | | |
| Fiber bend radius (long term) | mm | 13 | | |
| Typical Fiber length / coating | 1.0 m / 900 μm | | | |
| Fiber connector | Yes (FC/APC) | | | |
| Storage temperature | °C | -40 | | +60 |
| Operating case temperature | °C | -40 | | +60 |
| PER (if PM OPTION 1) | dB | | 18-22 | |
| Laser diode reverse voltage (absolute maximum rating) | V | | | 2 |

Form factor & Laser diode pinning :



14 pin DIL supplied with a butterfly laser diode driver adaptation kit.

