

1550 nm laser diode - DFB

Model 3b: >150 mW / singlemode fiber / 14 pin Butterfly with isolator / SMF or PMF

Reference: 1550LD-3b-0-0-1 or 2 (SMF or PMF)

Technology : DFB*

| SPECIFICATIONS | Unit | Min | Typ | Maximum |
|---|----------------------------|---------------|--------|--------------|
| Output Power (CW mode) | mW | 150 | | |
| Output Power (Pulse mode) | mW | | 225 | |
| Center Wavelength (CW)** | nm | 1545 | 1550** | 1555 |
| Isolator (Note : contact us for special version with no isolator or double stage isolator) | dB | | 25 | |
| Spectral Width (FWHM) | KHz | | 200 | |
| Threshold Current | mA | | 20 | 30 |
| Operating Current | mA | | 750 | 900 |
| Operation Voltage | V | | 1.8 | 2.0 |
| Wavelength shift w Temperature | nm/°C | | 0.08 | |
| Wavelength shift w Current | nm/mA | | 0.003 | |
| Side mode suppression ratio | dB | 35 | 50 | |
| Internal Photodiode Responsivity | mA/W | 5 | | |
| Internal Photodiode Dark Current | nA | | | 500 |
| TEC current (-5/60°C) | A | | | 1 |
| TEC Voltage (-5/60°C) | V | | | 1.5 |
| Internal thermistor (25°C) | kΩ | 9.5 | 10 | 10.5 |
| Fiber type | SMF28/PM1550 or equivalent | | | |
| Coating diameter | μm | | 900 | |
| Fiber bend radius | mm | | | 30 |
| Storage case temperature | °C | -40 (abs min) | | 70 (abs max) |
| Case operating temperature | °C | -20 | | 60 |
| Lead soldering temperature | °C | | 260 | 300 |
| Laser diode reverse voltage | V | | | 15 |
| Butterfly pin configuration*** | Type-1*** | | | |
| Pigtail termination | FC/APC connector | | | |
| Polarization state (PM version) | Aligned to the slow axis | | | |

*: See our tutorial : [fiber coupled laser diode](#)

** : Possibility to specify a precise wavelength – contact us

*** : Possibility to request another butterfly pin configuration: Type-2, Type-2 bias-T, Type 2 bias-T anode grounded...

Form factor & laser diode pin configuration (standard 14-pin Butterfly Type-1)*** :

