





## 1310 nm laser diode - DFB

Model 3 : >100 mW / singlemode fiber / 14 pin Butterfly package

Reference: 1310LD-3-0-0-0/1

Technology : DFB\*

| SPECIFICATIONS                   | Unit   | Min  | Typ     | Maximum |
|----------------------------------|--|------|---------|---------|
| Output Power (CW mode)           | mW   | 100  |         |         |
| Output Power (Pulse mode)        | mW   |      | >180    |         |
| Center Wavelength (CW)           | nm   | 1305 | 1310    | 1315    |
| Spectral Width (FWHM)            | nm   |      | <0.1 nm |         |
| Threshold Current                | mA   |      | 20      | 30      |
| Operating Current                | mA   |      | 650     | 800     |
| Operation Voltage                | V  |      | 1.6     | 1.8     |
| 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)       | kOhm   | 9.5  | 10      | 10.5    |
| Fiber type                       | SMF28-e/ultra or equivalent (PM version : PM1300 or eq.) |      |         |         |
| Coating diameter                 | µm   |      | 900     |         |
| Fiber bend radius                | mm   | 30   |         |         |
| Storage case temperature         | °C   | -40  |         | 70      |
| Case operating temperature       | °C   | -20  |         | 60      |
| Lead soldering temperature       |  |      | 260     | 300     |
| Laser diode reverse voltage      | V  |      |         | 15      |
| Pigtail termination              | FC/APC connector   |      |         |         |
| Polarization state (PM version)  | Aligned to the slow axis                                 |      |         |         |

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

Form factor & Laser diode pinning (standard 14-pin Butterfly Type-1) :



