

1030 nm laser diode - DFB

>200 mW / singlemode fiber / 10 pin Butterfly package*

Reference: 1030LD-2-0-0

Technology : DFB**

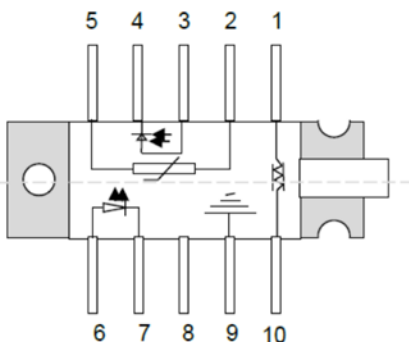
| SPECIFICATIONS | Unit | Min | Typ | Maximum |
|----------------------------------|--|---------------|--------|--------------|
| Output Power (CW mode) | mW | 200 | 220 | |
| Output Power (Pulse mode) | mW | 500 | 800 | |
| Center Wavelength | nm | 1028 | 1030 | 1032 |
| Spectral Width (FWHM) | kHz | | 200 | |
| Threshold Current | mA | | 40 | 70 |
| Operating Current | mA | | 350 | 400 |
| Operation Voltage | V | | 2.0 | 2.5 |
| Wavelength shift w Temperature | nm/°C | | 0.06 | |
| Wavelength shift w Current | nm/mA | | 0.0025 | |
| Polarization Extinction Ratio | dB | 13 | | |
| Internal Photodiode Responsivity | mA/W | 0.5 | | 10 |
| Internal Photodiode Dark Current | nA | | | 100 |
| TEC current (Case @ 75°C) | A | | | 1.4 |
| TEC Voltage (Case at 75°C) | V | | | 3.2 |
| Internal thermistor (25°C) | kOhm | 9.5 | | 10.5 |
| Fiber type | PM fiber : SM98-PS-U25D-H or Nufern PM980-HP | | | |
| Fiber bend radius | mm | 20 (abs min) | | |
| Coating diameter | µm | 230 | 250 | 270 |
| Storage case temperature | °C | -40 (abs min) | | 85 (abs max) |
| Lead soldering temperature | °C | | | 350 |
| Laser diode reverse voltage | V | | | 2.0 |
| Fiber termination | Bare fiber (optional FC/APC connector) | | | |
| Polarization state | Aligned to the slow axis | | | |

*: 10 pin Butterfly packages are compatible with all AeroDIODE Drivers (The pinning is very similar to a Type-1 Butterfly laser diode pinning)

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

Form factor:

Laser diode pinning :



| Pin | Description | Pin | Description |
|-----|---------------------|-----|-------------------|
| 1 | TEC (+) | 6 | Laser anode (+) |
| 2 | Thermistor | 7 | Laser cathode (-) |
| 3 | Monitor anode (-) | 8 | NC |
| 4 | Monitor cathode (+) | 9 | Package ground |
| 5 | Thermistor | 10 | TEC (-) |