

AeroDIODE

1030 nm laser diode

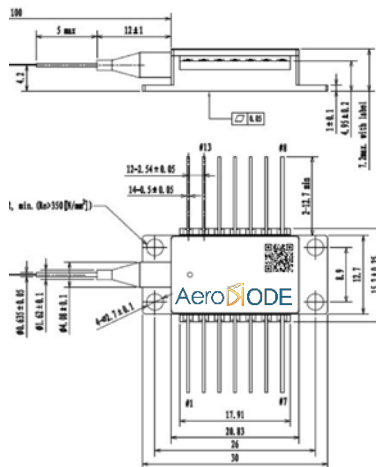
200 mW (CW) / 1200 mW (Pulsed) / singlemode fiber / Butterfly package

Reference: 1030LD-1-0-0

Technology : Single mode Fabry Perrot*

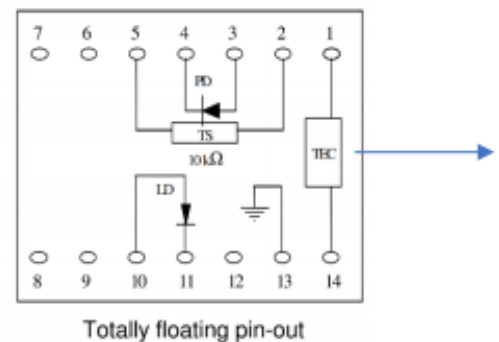
| SPECIFICATIONS | Unit | Min | Typ | Maximum |
|----------------------------------|---|----------------|----------|---------------|
| Output Power (CW) | mW | 150 | 200 | |
| Output Power (Pulsed) | mW | 1000 | 1200 | |
| Center Wavelength | nm | 1025 | 1030 | 1045 |
| Spectral Width (CW/Pulse) | nm(FWHM) | | | 0.2/1.0 |
| Threshold Current | mA | | 60 | 80 |
| Operating Current (CW/Pulse) | mA | | 350/2500 | |
| Operation Voltage | V | | 1.6 | 2.0 |
| Wavelength shift w Temperature | nm/°C | | 0.35 | |
| Power in Band | % | 90 | | |
| 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 | | | 1.5 |
| TEC Voltage (Case at 75°C) | V | | | 3.3 |
| Internal thermistor (25°C) | kOhm | 9.5 | | 10.5 |
| Fiber type | PM fiber : SM98-PS-U25D-H or Nufern PM980 | | | |
| Fiber bend radius | mm | 16 (abs min) | | |
| Coating diameter | µm | | 250/900 | |
| Storage case temperature | °C | -40 (abs. min) | | 85 (abs. max) |
| Operating case temperature | °C | -5 (abs. min) | | 75 (abs. max) |
| Lead soldering temperature | °C | | | 280 |
| Laser diode reverse voltage | V | | | 2.0 |
| Pigtail termination | Ferrule | | | |
| Polarization state | Aligned to the slow axis | | | |

Form factor:



Dimensions are in mm

Laser diode pinning :



Totally floating pin-out