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**Laser Diode Part Number: 976LD-2-0-0**

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## 976 nm laser diode

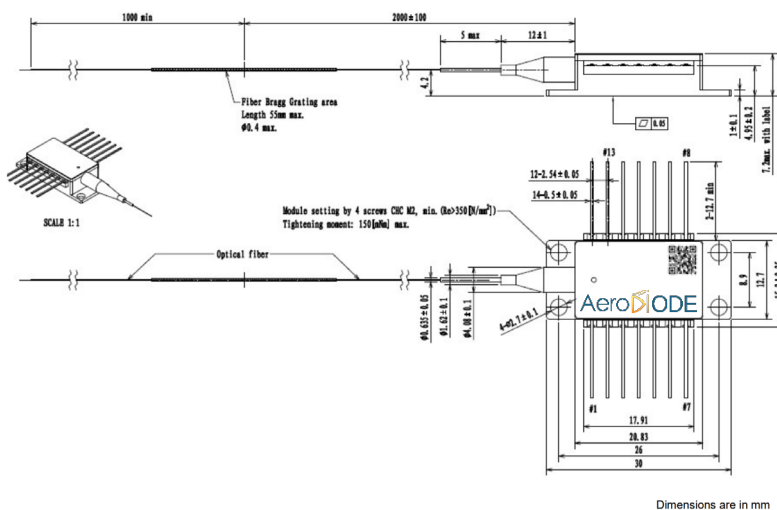
1000 mW / singlemode PM fiber / Butterfly package

Reference: 976LD-2-0-0

Technology : Single mode FP with Bragg Grating

| SPECIFICATIONS                   | Unit                     | Min           | Typ  | Maximum      |
|----------------------------------|--------------------------|---------------|------|--------------|
| Output Power                     | mW                       | 750           |      |              |
| Center Wavelength                | nm                       | 975           | 976  | 977          |
| Spectral Width (FWHM)            | nm                       |               |      | 1.0          |
| Threshold Current                | mA                       |               |      | 100          |
| Operating Current                | mA                       |               | 1000 |              |
| Operation Voltage                | V                        |               |      | 2.0          |
| Wavelength shift w Temperature   | nm/°C                    |               |      | 0.02         |
| 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                        |               |      | 1.6          |
| TEC Voltage (Case at 75°C)       | V                        |               |      | 3.4          |
| Internal thermistor (25°C)       | kOhm                     | 9.5           |      | 10.5         |
| Fiber type                       | PM980 or equivalent      |               |      |              |
| Fiber bend radius                | mm                       | 16 (abs min)  |      |              |
| Coating diameter                 | µm                       | 230           | 250  | 270          |
| Storage case temperature         | °C                       | -40 (abs min) |      | 85 (abs max) |
| Operating case temperature       | °C                       | -20 (abs min) |      | 75 (abs max) |
| Lead soldering temperature       | °C                       |               |      | 280          |
| Laser diode reverse voltage      | V                        |               |      | 2.0          |
| Polarization state               | Aligned to the slow axis |               |      |              |

Form factor:



Laser diode pinning :

