

## 980 nm laser diode

### 70 W – 105 $\mu$ m fiber – 0.22 NA

Reference: 980LD-5-0-0

Technology : Multi-emitter Multimode

| SPECIFICATIONS                 | Unit    | Min           | Typ     | Maximum      |
|--------------------------------|---------|---------------|---------|--------------|
| Output Power                   | W       | 70            |         |              |
| Center Wavelength              | nm      | 973           | 976     | 979          |
| Spectral Width (FWHM)          | nm      |               | 6       |              |
| Threshold Current              | A       |               | 0.9     |              |
| Operating Current              | A       |               | 12      | 13           |
| Operation Voltage              | V       |               | 11      | 12.5         |
| Wavelength shift w Temperature | nm/°C   |               | 0.3     |              |
| Wavelength shift w current     | nm/A    |               | 1.0     |              |
| Slope Efficiency               | W/A     |               | 6.5     |              |
| Feedback isolation             | nm      | 1020          |         | 1200         |
|                                | dB      | 30            |         |              |
| Storage case temperature       | °C      | -20 (abs min) |         | 70 (abs max) |
| Operating case temperature     | °C      | 15 (abs min)  |         | 35 (abs max) |
| Fiber bend radius              | mm      | 50 (abs min)  |         |              |
| Fiber Buffer/tube Diameter     | $\mu$ m |               | 245/900 |              |
| Fiber Clad Diameter            | $\mu$ m |               | 125     |              |
| Fiber Core Diameter            | $\mu$ m |               | 105     |              |
| Numerical Aperture             | NA      |               | 0.22    |              |
| Soldering Temperature          | °C      |               |         | 260          |
| Soldering time                 | s       |               |         | 10           |
| Dimensions                     | mm      | 80*48*16      |         |              |
| Mounting holes diam./dist.     | mm      | Ø3.4 / 75*40  |         |              |
| Fiber connector                |         | Yes (SMA905)  |         |              |
| Fiber bend radius              | mm      | 37.5          |         |              |

Please solder the pins when the level of current is over 6A

