

## 790 nm laser diode

Model 2: 10 W / 105 µm fiber / SMA connector

Reference: 790LD-2-0-0

| SPECIFICATIONS                 | Unit         | Min       | Typ  | Maximum |
|--------------------------------|--------------|-----------|------|---------|
| Output Power                   | W            |           | 10   |         |
| Center Wavelength              | nm           | 790       | 793  | 796     |
| Spectral Width (FWHM)          | nm           |           | 3.5  |         |
| Threshold Current              | A            |           | 0.6  | 0.9     |
| Operating Current              | A            |           | 6.0  | 6.5     |
| Operation Voltage              | V            |           | 3.8  | 4.0     |
| Conversion Efficiency          | %            |           | 45   |         |
| Wavelength shift w Temperature | nm/°C        |           | 0.3  |         |
| Wavelength shift with current  | nm/A         |           | 0.7  |         |
| Slope Efficiency               | W/A          |           | 1.8  |         |
| Storage Temperature            | °C           | -30       |      | 70      |
| Case Operating Temperature     | °C           | 15        | 25   | 55      |
| Minimum Fiber Bend Radius      | mm           | 37.5      |      |         |
| Fiber Buffer/tube Diameter     | μm           |           | 900  |         |
| Fiber Clad Diameter            | μm           |           | 125  |         |
| Fiber Core Diameter            | μm           |           | 105  |         |
| Numerical Aperture             | NA           |           | 0.22 |         |
| Soldering Temperature          | °C           |           |      | 260     |
| Soldering time                 | s            |           |      | 10      |
| Dimensions                     | mm           | 21*55*9.2 |      |         |
| Fiber connector                | Yes (SMA905) |           |      |         |
| ROHS Compliant                 | Yes          |           |      |         |

Form factor:

