

793 nm laser diode 180 W / 105 μm fiber core

Reference: 793LD-7-0-0

| SPECIFICATIONS | Unit | Min | Typ | Maximum |
|---|-------|---|------|---------|
| Output Power | W | 170 | 180 | |
| Center Wavelength | nm | 790 | 793 | 796 |
| Spectral Width (FWHM) | nm | | 4.5 | 6.0 |
| Threshold Current | A | | 0.7 | 0.9 |
| Operating Current | A | | 6.0 | 6.5 |
| Operation Voltage | V | | 69.0 | 73.0 |
| Conversion Efficiency | % | | 40 | |
| Wavelength shift w Temperature | nm/°C | | 0.35 | |
| Wavelength shift w Current | nm/A | | 0.7 | |
| Slope Efficiency | W/A | | 25.0 | |
| Back reflection isolation stage | nm | 1900 | | 2100 |
| Back reflection isolation | dB | | 30 | |
| Storage Temperature | °C | -30 | | 70 |
| Case Operating Temperature | °C | 15 | 25 | 45 |
| Minimum Fiber Bend Radius | mm | 30 | | |
| Fiber Buffer/tube Diameter | μm | 900 (large 6 mm diameter with metal protection available on demand) | | |
| Fiber Core Diameter | μm | | 105 | |
| Fiber Clad Diameter | μm | | 125 | |
| Numerical Aperture | NA | | 0.22 | |
| Soldering Temperature | °C | | | 260 |
| Soldering time | s | | | 10 |
| Dimensions | mm | 222*50*24.9 | | |
| Mounting holes (Diameter/distance) | mm | Ø3.5 / 10 units | | |
| Fiber connector | | Yes (SMA905) | | |
| ROHS Compliant | | Yes | | |
| Please solder the pins when the level of current is over 6A | | | | |

