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LASER LAB SOURCE
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Laser Diode Part Number: 980LD-7-0-0

contact@laserlabsource.com | 800-887-5065

980 nm laser diode

250 W – 135 μm fiber – 0.22 NA

Reference: 980LD-7-0-0

Technology : Multi-emitter Multimode

| SPECIFICATIONS | Unit | Min | Typ | Maximum |
|--------------------------------|-------|-----------------|---------|--------------|
| Output Power | W | 250 | | |
| Center Wavelength | nm | 973 | 976 | 979 |
| Spectral Width (FWHM) | nm | | 4 | |
| Threshold Current | A | | 0.9 | |
| Operating Current | A | | 18.5 | 20.0 |
| Operation Voltage | V | | 27.2 | 30.0 |
| Wavelength shift w Temperature | nm/°C | | 0.3 | |
| Wavelength shift w current | nm/A | | 1.0 | |
| Slope Efficiency | W/A | | 14 | |
| 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 | μm | | 245/900 | |
| Fiber Clad Diameter | μm | | 155 | |
| Fiber Core Diameter | μm | | 135 | |
| Numerical Aperture | NA | | 0.22 | |
| Soldering Temperature | °C | | | 260 |
| Soldering time | s | | | 10 |
| Dimensions | mm | 141*55*18 | | |
| Mounting holes (diam./dist.) | mm | Ø3.4 / 130*55 | | |
| Fiber connector | | Yes (HP-SMA905) | | |
| Fiber bend radius | mm | 50 | | |

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

