



*This product is sold
and supported
in the USA by*



LASER LAB SOURCE
marketplace for **Scientists & Engineers**

Laser Diode Part Number: 976LD-4-0-0

contact@laserlabsource.com | 800-887-5065

976 nm laser diode 30 W- 105 μm fiber – NA=0.22*

Reference: 976LD-4-0-0

Technology : Multi emitters with VBG**

| SPECIFICATIONS | Unit | Min | Typ | Maximum |
|-----------------------------------|-------|-----------------|---------|--------------|
| Output Power (nominal/Kink free) | W | 27/30 | | |
| Center Wavelength | nm | 975.5 | 976 | 976.5 |
| Spectral Width (FWHM) | nm | | <0.7 | |
| Threshold Current | A | | 0.9 | |
| Operating Current | A | | 12 | 13 |
| Operation Voltage | V | | 4.8 | 6.0 |
| Narrow spectral emission range | A | | 3-13 | |
| Wavelength shift w Temperature | nm/°C | | 0.02 | |
| Wavelength shift w current | nm/W | | | |
| Feedback isolation | nm | 1020 | | 1200 |
| | dB | 30 | | |
| Slope Efficiency | W/A | | 2.5 | |
| Storage case Temperature | °C | -40 (abs. min) | | 70 (abs max) |
| Operating case temperature | °C | 20 (abs min) | | 30 (abs max) |
| Fiber Bend Radius | mm | 50 (abs min) | | |
| Fiber Buffer/tube Diameter | μm | | 250/900 | |
| 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 | 43*25*11 | | |
| Mounting holes diameter/distances | mm | Ø3.2 / 20*38 | | |
| Integrated thermistor | | Yes | | |
| Fiber connector | | Yes : SMA905*** | | |

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

*: Light NA within the fiber is typically much lower

** : Volume Bragg Grating

*** : Fiber connector for handling and space or collimator-coupling- not for SMA-SMA fiber-to-fiber connection

