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

Laser Diode Part Number: 976LD-3-0-0

contact@laserlabsource.com | 800-887-5065

976 nm laser diode 10 W- 105 μm fiber – NA=0.22*

Reference: 976LD-3-0-0

Technology : Single emitter with VBG**

| SPECIFICATIONS | Unit | Min | Typ | Maximum |
|----------------------------------|-------|-----------------|---------|--------------|
| Output Power (nominal/Kink free) | W | 9/10 | | |
| Center Wavelength | nm | 975.5 | 976 | 976.5 |
| Spectral Width (FWHM) | nm | | <0.7 | |
| Threshold Current | A | | 0.9 | |
| Operating Current | A | | | 13 |
| Operation Voltage | V | | 1.6 | 1.8 |
| Wavelength shift w Temperature | nm/°C | | 0.02 | |
| Wavelength shift w current | nm/A | | | |
| Feedback isolation | nm | 1020 | | 1200 |
| | dB | 30 | | |
| Slope Efficiency | W/A | | 0.9 | |
| 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 | | 245/900 | |
| Fiber Clad Diameter | μm | | 125 | |
| Fiber Core Diameter | μm | | 105 | |
| Numerical Aperture | NA | | | 0.22* |
| Soldering Temperature | °C | | | 260 |
| Soldering time | s | | | 10 |
| Integrated thermistor | | No | | |
| 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

Form factor:

