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

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**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:

