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**Laser Diode Part Number: 976LD-5-0-0**

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**contact@laserlabsource.com | 800-887-5065**

## 976 nm laser diode

### 60 W - 105 μm fiber - NA=0.22\*

Reference: 976LD-5-0-0

Technology : Multi emitters with VBG\*\*

SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power (nominal/Kink free)	W	60		
Center Wavelength	nm	975.5	976	976.5
Spectral Width (FWHM)	nm		0.5	<0.7
Threshold Current	A		0.9	
Operating Current	A		12	13
Operation Voltage	V		12	12.5
Narrow spectral emission range	A		7-13	
Wavelength shift w Temperature	nm/°C		0.02	
Wavelength shift w current	nm/A		0.03	
Feedback isolation	nm	1020		1200
	dB	30		
Slope Efficiency	W/A		5.5	
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	80*48*16		
Mounting holes (diam/dist)	mm	Ø3.4 / 75*48		
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



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