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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

