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Laser Diode Part Number: 976LD-6-0-0

contact@laserlabsource.com | 800-887-5065

976 nm laser diode

140 W- 105 μm fiber –NA=0.22*

Reference: 976LD-6-0-0

Technology : Multi emitters with VBG**

SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power	W	140		
Center Wavelength	nm	975	976	976
Spectral Width (FWHM)	nm			1.0
Threshold Current	A		0.9	
Operating Current	A		13	14
Operation Voltage	V		22.5	24
Narrow spectral emission range	A		11-14	
Wavelength shift w Temperature	nm/°C		0.02	
Wavelength shift w current	nm/W		0.03	
Slope Efficiency	W/A		11	
Feedback isolation	nm	1020		1200
	dB	30		
Storage case Temperature	°C	-20 (abs. min)		70 (abs max)
Operating case temperature	°C	20 (abs min)		30 (abs max)
Fiber Bend Radius	mm	60 (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*80*25		
Mounting holes (diam/dist)	mm	Ø3.3 / 74.4*38		
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 - contact us for lower NA fiber version (for example 130W-NA=0.15)

** : Volume Bragg Grating

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

