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**Laser Diode Part Number: 980LD-5-0-0**

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

## 980 nm laser diode

### 70 W – 105 $\mu$ m fiber – 0.22 NA

Reference: 980LD-5-0-0

Technology : Multi-emitter Multimode

SPECIFICATIONS	Unit	Min	Typ	Maximum
Output Power	W	70		
Center Wavelength	nm	973	976	979
Spectral Width (FWHM)	nm		6	
Threshold Current	A		0.9	
Operating Current	A		12	13
Operation Voltage	V		11	12.5
Wavelength shift w Temperature	nm/°C		0.3	
Wavelength shift w current	nm/A		1.0	
Slope Efficiency	W/A		6.5	
Feedback isolation	nm	1020		1200
	dB	30		
Storage case temperature	°C	-20 (abs min)		70 (abs max)
Operating case temperature	°C	15 (abs min)		35 (abs max)
Fiber bend radius	mm	50 (abs min)		
Fiber Buffer/tube Diameter	$\mu$ m		245/900	
Fiber Clad Diameter	$\mu$ m		125	
Fiber Core Diameter	$\mu$ m		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*40		
Fiber connector		Yes (SMA905)		
Fiber bend radius	mm	37.5		

Please solder the pins when the level of current is over 6A

