

### **808nm, 7 Watt Laser Diode, Fiber Coupled**

- 7 Watts of Optical Output Power
- Center Wavelength 808 nm
- 200 $\mu$ m Fiber Core, 0.22NA
- Integrated Red Pilot Laser @ 650nm
- SMA905 Connector

## RLS-808NM/7W DATA SHEET

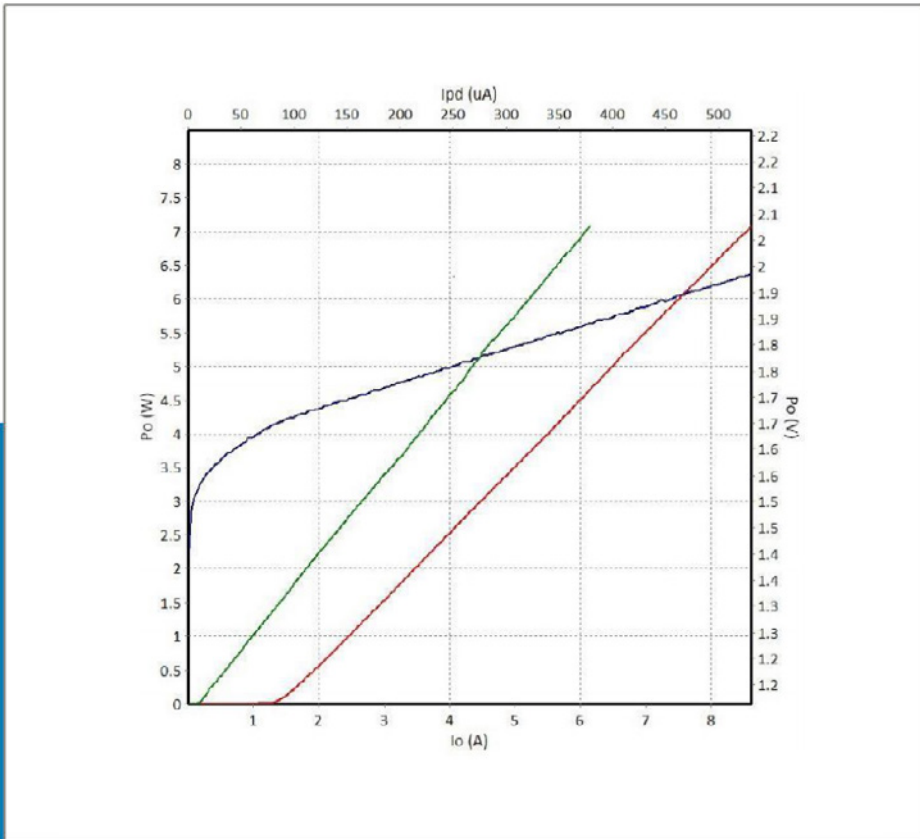


WORLD LEADING PRODUCTS  
FOR LASER SCIENTISTS AND ENGINEERS

DATA SHEET

**RLS-808NM/7W Product Overview**

These 808nm 5 Watt to 9 Watt Laser Diodes are known for their high efficiency and robust thermal design structure. They are designed to yield lifetimes of thousands of hours at its full rated power. The 11-pin fiber coupled package laser is designed to easily attach to a heat sink for thermal control. These devices are suitable for applications including material processing, materials sample illumination and medical uses. They are also use for solid-state laser pumping, beacons and illumination. These fiber pigtailed semiconductor lasers include a thermistor and a thermoelectric cooler to provide active heat control of the package. They also include an MPD. They are an affordable source for laboratory research and for integration into a laser system product.



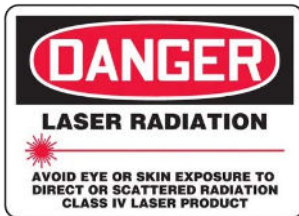
## RLS-808NM/7W SPECIFICATIONS

### SPECIFICATIONS

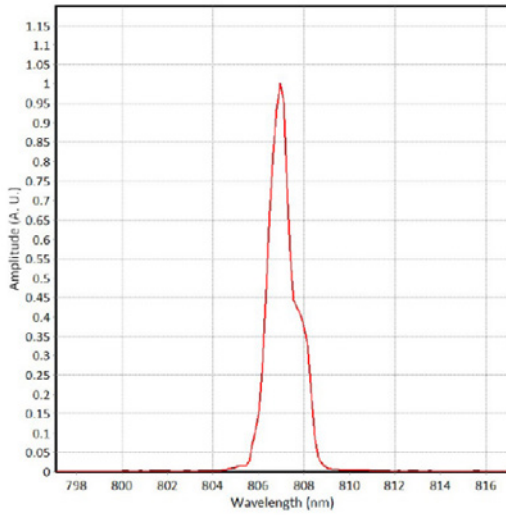
Optical Output Power:	7 Watts
Wavelength:	808 nm ( $\pm 10$ nm)
Spectral Width:	$\leq 6$ nm
Threshold Current (typ):	1.38 Amps
Operating Current: (typ):	8.54 Amps
Operating Voltage (typ):	1.93 volts
Typical Temperature Tuning Coefficient:	0.3 nm/ $^{\circ}$ C
Monitor PD Current Output:	< 3000 $\mu$ A
Fiber Core:	200 $\mu$ m
Connector:	SMA905

### AIMING BEAM

Wavelength:	650nm ( $\pm 10$ nm)
Output power:	2mW



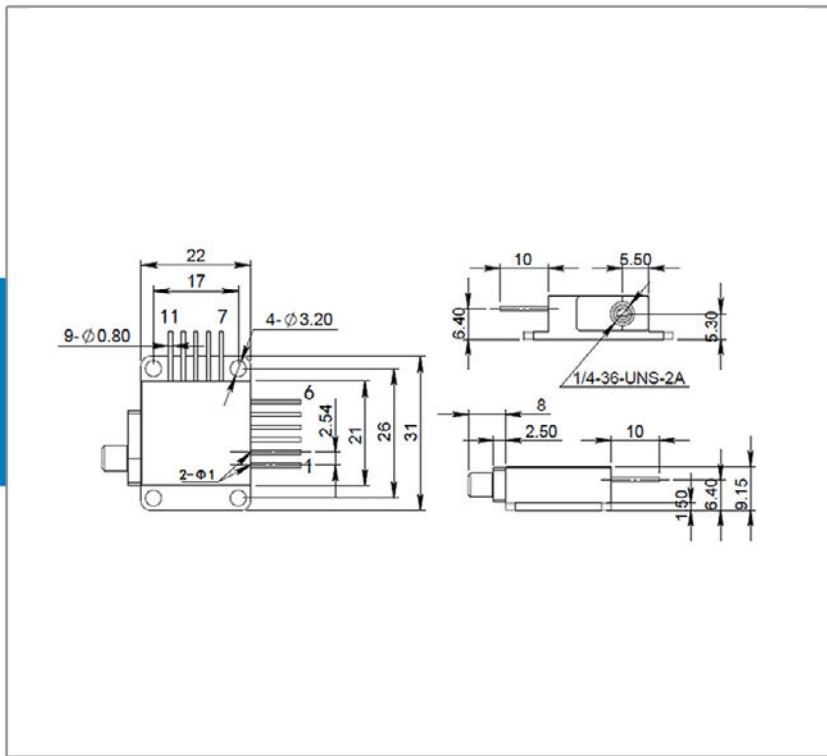
**DATA SHEET**



**Package Dimensions (mm)**

Pin	Function	Pin	Function
1	Laser (+)	7	Thermistor
2	Laser (-)	8	Thermistor
3	PD (N)	9	Fiber detector PD (P)
4	PD (P)	10	Fiber detector LED (-)
5	Aiming beam (-)	11	Fiber detector LED (+)
6	Aiming beam (+)		Fiber detector PD (N)

## DATA SHEET



### Product Warranty:

In addition to the standard full one year warranty, this product is offered with an additional 3 months of extended warranty for a total of 15 months of warranty coverage. The warranty includes all parts and labor. The warranty does not include customer induced product damage.

### Our Customer Commitment:



#### You Get Direct, Fast Tech-Support from a Product ENGINEER ... Not a Sales Person

You get DIRECT access to the correct factory engineer for your product. We eliminate the sales person "middle-man" back and forth time delays resolving technical issues. No more "Contact Us" forms. Every product has an assigned engineer in our auto-messaging data base to give you direct, immediate access to the correct tech-support info.



#### You Get an Extended Warranty

All products from Laser Lab Source come with a 12 month factory warranty. Additionally, we offer and extra 3 months of warranty on top of the standard warranty. *Warranty does not include customer induced product damage.*



#### You Get the Lowest Factory-Direct Prices Worldwide

All of our 3rd party global suppliers set & quote their own direct pricing. There are NO Mark-Up's. You get their lowest direct price.