

LTL830RS 830nm Raman Lasers

Detailed Specification

Output Wavelength	830nm±1nm
Output Power	300mW or 500mW
Spectral Line Width	0.1
Spectrum Stability	0.1nm
Operating Mode	CW
Beam Divergence, Full Angle	5.0 ± 0.1mrad
Beam Diameter (1/e ²) @ Exit	1x5mm
Power Stability	3% (rms, over 4 hours, T= 25°C)
Polarization, Linear	100:1
Modulation	Analog (10KHz) or TTL modulation (10KHz, 30KHz optional)

Application

Polarization maintaining fiber coupling
 Non-Gaussian laser line output
 Medical application
 Life science
 High-resolution printing
 Laser-induced fluorescence

Features

Current visible LED display
 ESD protection
 Power adjustable
 LD temperature stabilized
 LD full current protection

Reliability

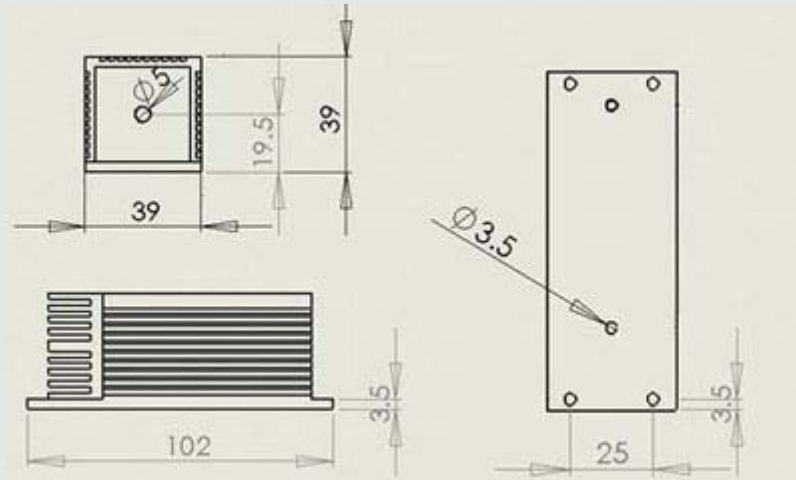
Warm Up Time	<10minutes
Operating Temperature, Case	0°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Expected Operation Lifetime	10000 hours
Warranty	12 months

Note: The Laser could be operated without extra heat sink. Do not restrict air circulation around the device. Also do not place the laser in a thermal insulating material, such as foam plastic. A metal heat is always recommended and it can be used to maximize the performance and life time of the laser. Heat can have an adverse effect on laser diodes, including decreased output power.

Mechanical Parameter

Dimensions of Laser Head	102 × 39 × 39mm		
Weight of Laser Head	0.5Kg		
Power Supply	ADR-1800	ADR-1805	DDR-2012
	FDA PSU	LED Current Visible PSU	12VDC Driver
Dimensions of Power Supply	110 × 150 × 40mm	110 × 150 × 40mm	105 × 72 × 30mm
Input Volage	85~240VAC, 50/60Hz	85~240VAC, 50/60Hz	12VDC
Weight of Power Supply	0.6Kg	0.6Kg	0.1Kg

Mechanical Drawing (Laser Head)



Mechanical Drawing (Power Supply)

ADR-1800



ADR-1805

