PRODUCT MENU

+ SLOC Lasers
- DPSS Laser
  + Introduce
  + 532nm Green DPSS Laser
  + 473nm Blue DPSS Laser
  - 671nm Red DPSS Laser
    + Temperature Stabilized Laser
    - Low Noise Laser
      - N3 (up to 300mW)
      - N5 (up to 1000mW)
      - N6 (up to 2000mW)
      - N7 (up to 3000mW)
      - N9 (up to 5000mW)
    + SLM Laser
    + Line Laser
    + Laser with Fiber Coupled
  + 457nm BLue DPSS Laser
  + 480nm Blue DPSS Laser
  + 523.5nm Green DPSS Laser
  + 526.5nm Green DPSS Laser
  + 542nm Green DPSS Laser
  + 556nm Yellow-Green DPSS Laser
  + 561nm Yellow-Green DPSS Laser
  + 589nm Yellow DPSS Laser
  + 593.5nm Yellow DPSS Laser
  + 660nm Red DPSS Laser
  + 914nm Infrared DPSS Laser
  + 946nm Infrared DPSS Laser
  + 1047nm Infrared DPSS Laser
  + 1053nm Infrared DPSS Laser
  + 1064nm Infrared DPSS Laser
  + 1313nm Infrared DPSS Laser
  + 1319nm Infrared DPSS Laser
  + 1342nm Infrared DPSS Laser
  + Other Wavelengths
+ Diode Laser
+ RGB Laser
+ Fiber Coupled Laser
+ Laser Optics & Crystals
+ Scanner

671nm Red DPSS Laser (N3)

Key Feature

- Compact 671nm Low Noise Red DPSS Laser
- CW Output Power up to 300mW
- High Quality TEM_{00} Beam
- 1% Amplitude Noise
- High Reliability

Application

- DNA Sequencing
- Flow Cytometry
- Cell Sorting
- Spectrum Analysis
- Optical Instrument
- Laser Printing
- Interference
- Holography

RL671N3 Series Laser		
Optical Parameter		
Output Wavelength	671±1nm	
Output Power	1~300mW	
Spatial Mode	TEM_{00}	
Operating Mode	CW	
Mode Quality (M^2)	<1.2	
Beam Divergence, Full Angle	1.5 ± 0.2mrad [1]	
Beam Diameter ($1/e^2$) @ Exit	2.0 ± 0.2mm	
Power Stability	5% (RMS, over 2 hours, T= 25℃) [2]	
	10% (RMS, over operating temperature)	
Beam Pointing Stability	<50μrad over 2 hours (ambient ±5℃)	
Polarization, Linear	100:1	
Amplitude Noise (20Hz to 20MHz)	<1% rms	
Residual IR	<0.5%	
Electrical Parameter		
Power Supply	ADR-700D	DDR-7005
	Desktop PSU	5VDC Driver
Input Voltage	85~240VAC, 50/60Hz	5VDC
Modulation	None	
Mechanical Parameter		
Dimensions of Laser Head	140. 8 × 73 × 46. 2mm	
Weight of Laser Head	0.6Kg	
Dimensions of Power Supply	133 × 130 × 65mm	100 × 60 × 56mm
Weight of Power Supply	1.2Kg	0.2Kg

Reliability	
Warm Up Time	<10 minutes
Cooling	Forced-air cooled [3]
Operating Temperature, Case	10℃ ~ 35℃
Storage Temperature	-20℃ ~ 60℃
Expected Operation Lifetime	10000 hours
Warranty	12 months [4]

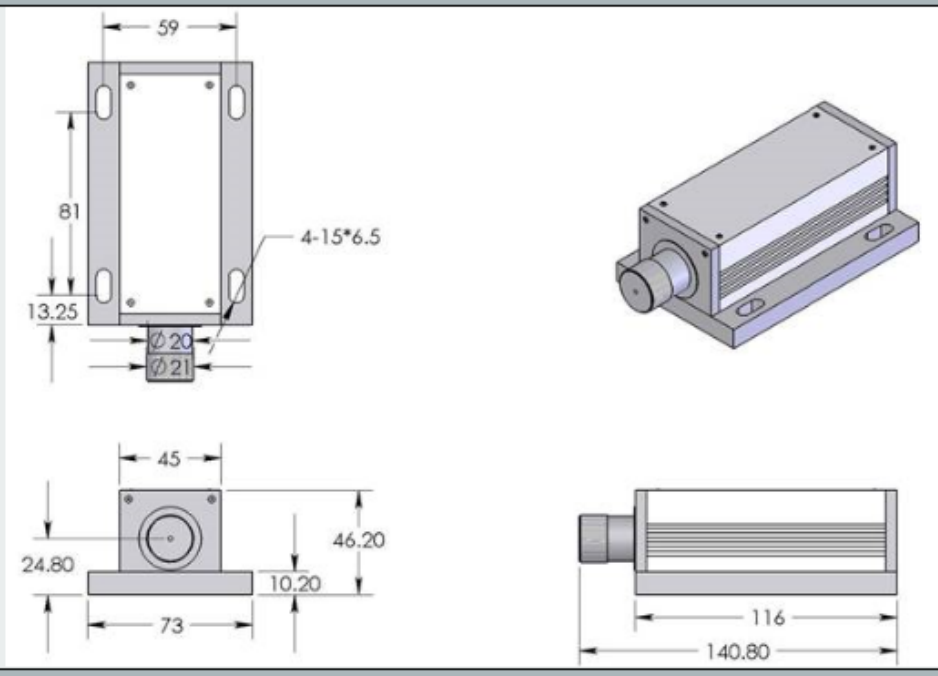
Note

[1] 0.5mrad or 1.0mrad beam divergence is available upon request.
[2] Better power stability (<1% rms or <3% rms, over 2hours, 25℃) is available upon request.
[3] The Laser is designed to operate without heat sink. Do not restrict air circulation around the device; an additional heat sink can be used to maximize the performance and life time of the laser.
[4] 2-Year Warranty is available upon request.

Laser Products

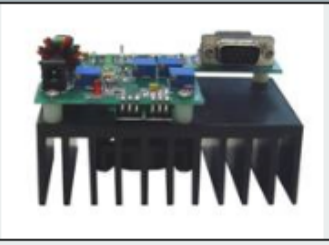
Model	Output Power	Power Stability (over 2hrs, 25℃)	Amplitude Noise (20Hz to 20MHz)	IEC/CDRH Laser Class
RL671N3-001	<1mW	5% rms	1% rms	Class 2/II
RL671N3-005	<5mW	5% rms	1% rms	Class 3R/IIIa
RL671N3-010	10mW	5% rms	1% rms	Class 3B/IIIb
RL671N3-020	20mW	5% rms	1% rms	Class 3B/IIIb
RL671N3-030	30mW	5% rms	1% rms	Class 3B/IIIb
RL671N3-050	50mW	5% rms	1% rms	Class 3B/IIIb
RL671N3-100	100mW	5% rms	1% rms	Class 3B/IIIb
RL671N3-200	200mW	5% rms	1% rms	Class 3B/IIIb
RL671N3-300	300mW	5% rms	1% rms	Class 3B/IIIb

Mechanical Drawing (Laser Head)



Mechanical Drawing (Power Supply)

ADR-700D



DDR-7005