

Test Report

Laser Diode Module

THORLABS

Device Name	CPS635R
Serial Number:	C190708-277
Peak Wavelength:	636.7 nm
Manufacturer:	Thorlabs GmbH

Tested by: Helena Kochanowski
 Date of Manufacturing: 16-Jul-2019
 QA: PASS



Summary of Test Data (CW, Tcase ~25°C)

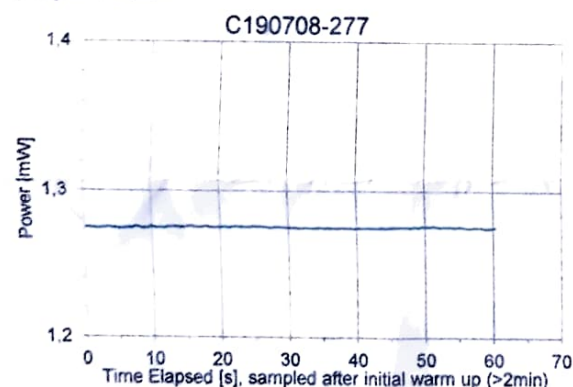
Parameter	Value	Unit
Output Power *	1.3	mW
Operating Current *	49	mA
Short term Power Stability **	0.1	%

* Average over 1 minute ** Defined as the ratio between the peak-to-peak Power Swing and Average Power within 1 minute.

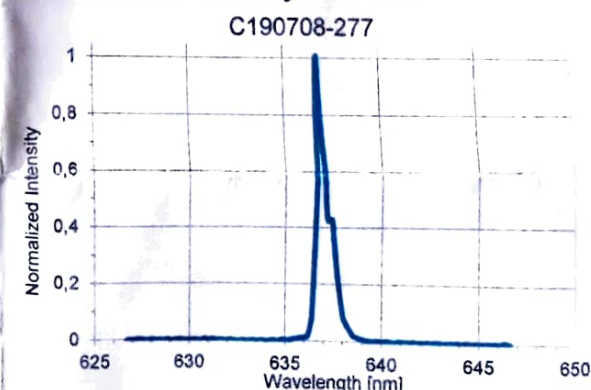
Operation Range

Parameter	Range	Unit
Operating Voltage	4.9 to 5.2	V
Storage Temperature	-30 to 70	°C
Operation Temperature	-10 to 50	°C

Output Power



Spectrum measured by: CCS175



Safety and Warnings

LASER RADIATION AVOID DIRECT EYE EXPOSURE CLASS 3R LASER PRODUCT IEC 60825-1:2014	
MAX OUTPUT POWER:	1.4 mW
WAVELENGTH	637 nm



WARNING

- This is a laser class 3R laser product.
- Avoid direct eye exposure because it can cause permanent damage to the eye.
- Users are required to obey laser safety regulations for Laser Class 3R lasers. Precautions according to laser safety for Laser Class 3R are to be installed prior to handling this laser product.
- Users and all people possibly exposed to laser radiation are required to wear laser safety glasses for the corresponding wavelength whenever using the here described laser diode module. The laser beam might be in line of sight of other people. Be aware that laser light reflected off glass and shiny surfaces could be about as strong and focused as the direct beam. Prevent exposure of eyes to such reflected light.
- Collimated laser diode modules can be distraction, glare or flashblindness hazards for pilots and drivers. NEVER aim any laser towards an aircraft or vehicle that is in motion. This is unsafe and is illegal.
- ONLY ALLOW USE BY RESPONSIBLE PERSONS. This is not a toy. Keep any Laser Class 2 or higher out of reach of children.
- The safety of any system incorporating this laser product is the responsibility of the assembler of the system. According to IEC 60825-1:2014 section 6.7, a warning device shall give an audible or visible signal when the laser system is switched on or if any capacitor banks of a pulsed laser are being charged or have not positively discharged. The warning device shall be fail-safe or redundant. Any visible warning device shall be clearly visible through protective eyewear specifically designed for the wavelength(s) of the emitted laser radiation. The visible warning device(s) shall be located so that viewing does not require exposure to laser radiation in excess of the AEL for Class 1M and 2M.