

# Test Report

## Laser Diode Module

Device Name:	CPS532-C2
Serial Number:	C190328-229
Peak Wavelength:	532.0 nm
Manufacturer:	Thorlabs GmbH



Tested by: T. Schlosser  
 Date of Manufacturing: 13-Jun-2019  
 QA: PASS

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

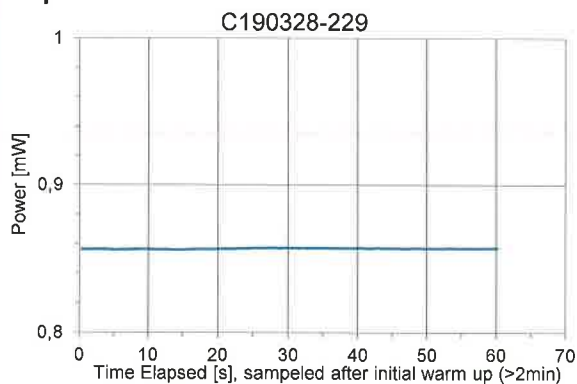
Parameter	Value	Unit
Output Power *	0.86	mW
Operating Current *	78	mA
Short term Power Stability **	0.2	%

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

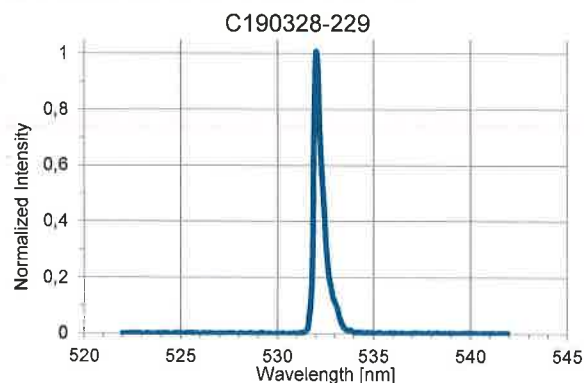
### Operation Range

Parameter	Range	Unit
Operating Voltage	4.9 to 5.2	V
Storage Temperature	-30 to 70	°C
Operation Temperature	10 to 40	°C

### Output Power



### Spectrum measured by: CCS100



### Safety and Warnings

**LASER RADIATION**  
 DO NOT STARE INTO BEAM  
 CLASS 2 LASER PRODUCT  
 IEC 60825-1:2014

MAX OUTPUT POWER: 1.0 mW  
 WAVELENGTH 532 nm

**CAUTION**  
 LASER BEAMS  
 WEAR EYE PROTECTION

**WARNING**

- This is a laser class 2 laser product.
- Do not stare into the laser beam because it can cause permanent damage to the eye.
- Users are required to obey laser safety regulations for Laser Class 2 lasers. Precautions according to laser safety for Laser Class 2 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 duration of this warranty for the here described laser product is the lesser of either: (1) one year or (2) 5000 hours of operation within the specified operating ranges.

## **Operation Conditions**

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The here described collimated laser diode modules are rated for laboratory use only and should not be operated in hazardous environment condition. Refer to the Specification Sheet for information about the operation of the Laser Diode Module.

## **Certifications**

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Thorlabs GmbH herewith declares that this product is in accordance with the guidelines of the 2014/30/EU CE-guidelines. The full text of the EU-Declaration of Conformity can be found on the following web site: [https://www.thorlabs.com/newgrouppage9.cfm?objectgroup\\_id=1487](https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=1487)



## **Life Support and Military Use Application Policy**

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THORLABS' PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS OR IN ANY WAY MILITARY APPLICATIONS WITHOUT THE EXPRESSED WRITTEN APPROVAL OF THE PRESIDENT OF THORLABS INC.

As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) sustain life, and whose failure to perform, when properly used in accordance with instructions for use, provided in any of the available documentation for this product, can be reasonably expected to result in a significant injury to the user.
2. A critical component is any component in a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system or to affect its safety or effectiveness.
3. Thorlabs' products described in this document are not intended nor warranted for usage in Military Applications.

