



APCD-520-07-C2

- GREEN Laser Diode Module
- 520 nm, <1 mW
- Ø 3.3 mm
- Automatic Power Control
- Fix Collimated Acryl Lens



Description

APCD-520-01-C2 is a multi-purpose compact size fix collimated green laser diode module with a typical emission wavelength of 520 nm, and an optical output power of <1 mW. It features **low current consumption** with **automatic power control (APC)** driving electronics and integrated **surge current protection**. It can optionally be configured for up to 2 MHz PWM operation.

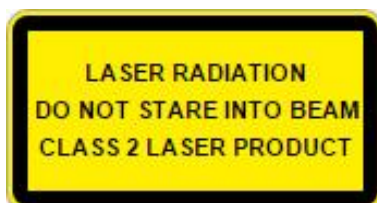
Maximum Ratings

Parameter	Values		Unit
	Min.	Max.	
Power supply voltage		7	V
Operating temperature	0	+ 50	°C
Storage temperature	0	+ 85	°C

Electro-Optical Characteristics (T_{CASE} = 25°C)

Parameter	Values			Unit
	Min.	Typ.	Max.	
Peak Wavelength	510	520	530	nm
Output Power	0.5		0.9	mW
Beam diameter @ aperture		~ 1.3		mm
Beam diameter @ 10 m			20	mm
Beam divergence		2		mrad
Operating Current (V _{CC} =6V)			100	mA
Supply Voltage		6	6.5	VDC
PWM control mode*	100		2000	kHz
Dimensions	Ø 3.3 x 8.0			mm
Material body	Brass (GND)			
Material lens	Acryl			
Leads	2 x 60 mm AWG 24			

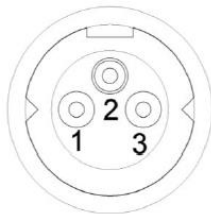
* optionally, C=10 µF, duty cycle = 50%



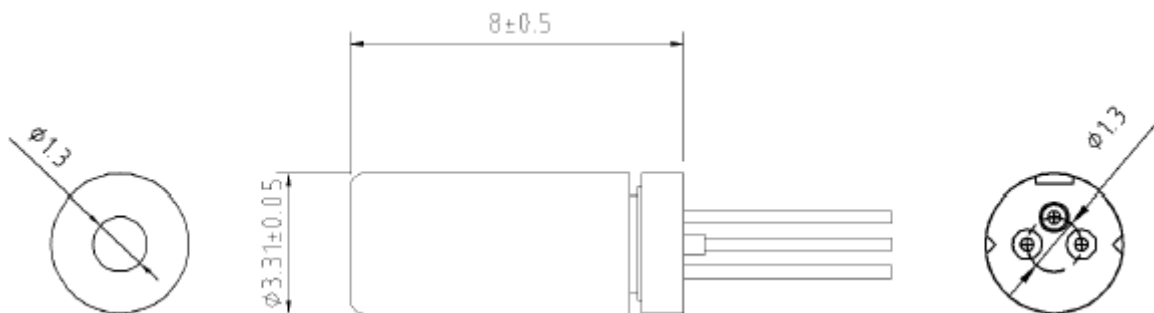


Electrical Connection

Pin #	Function
Pin 1	Vcc
Pin 2	GND
Pin 3	PWM (optional)



Outline Dimensions



all dimensions in mm

Precautions

Static Electricity:

Precautions against electrostatic discharge (ESD) must be taken when handling or operating the module. Surge voltage or electrostatic discharge can result in complete failure of the laser diode.

Safety:

This laser module emits highly concentrated visible light which can be **hazardous to the human eye and skin**. It is classified as **CLASS 2 laser product** according to **IEC 60825-1** and **21 CFR Part 1040.10 Safety Standards**. Actual laser light emitted and precautions necessary strongly depend on mode of operation.

