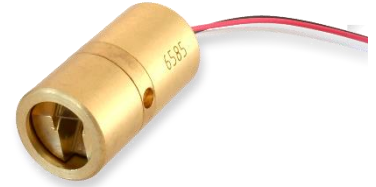




APCM-5185-01-C3

- DUAL Color Laser Diode Module
- 520 nm + 845 nm, <4 mW
- Single Beam Axis
- Automatic Power Control



Description

APCM-5185-01-C3 is a compact size fix collimated **dual color** laser diode module with a typical emission wavelength of **520 nm + 845 nm**, and optical output power of **<4 mW**, with an overlapping **single beam emission** through internal **beam combining optic**. It features **automatic power control (APC)** driving electronics, optimized for **low current consumption**, with integrated **surge current protection**. Both wavelengths can be operated independently from each other.

Maximum Ratings

Parameter	Values		Unit
	Min.	Max.	
Power supply voltage		6.5	V
Optical Output Power		<5	mW
Operating temperature	0	+ 50	°C
Storage temperature	0	+ 85	°C

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

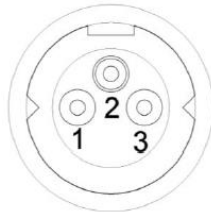
Parameter	Values			Unit	
	Min.	Typ.	Max.		
GREEN	Peak Wavelength	510	520	530	nm
	Output Power	2		4	mW
	Operating Current (V _{CC} =6V)			100	mA
IR	Peak Wavelength	830	845	855	nm
	Output Power	2		4	mW
	Operating Current (V _{CC} =6V)			60	mA
Beam diameter @ 10 m			20	mm	
Beam divergence		2		mrad	
Supply Voltage		6	6.5	VDC	
Dimensions	Ø 15 x 29			mm	
Material body	Brass (GND)				
Material lens	Acryl				
Leads	3 x 100 mm AWG 24				



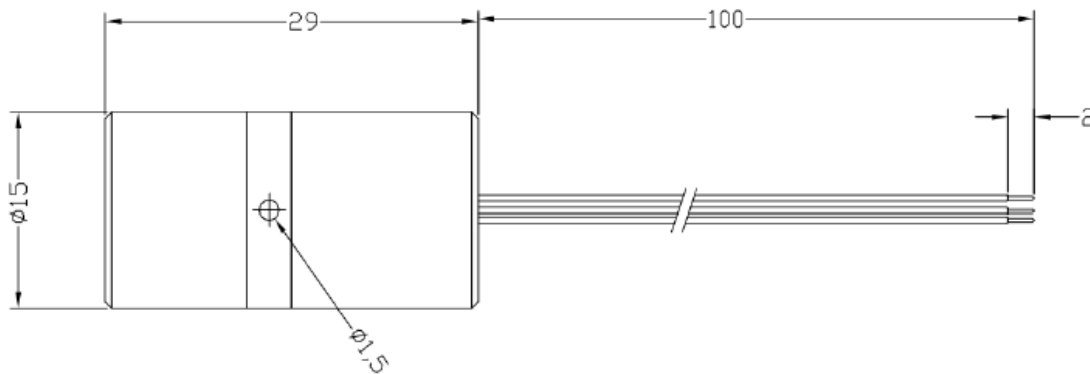


Electrical Connection

Pin #	Function
Pin 1	V _{CC} 520 nm (Red wire)
Pin 2	GND (Black wire)
Pin 3	V _{CC} 845 nm (White wire)



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 3R 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.

