

## APCM-6585-01-C3

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

# RŏHS (Pb)

#### Description

APCM-6585-01-C3 is a compact size fix collimated dual color laser diode module with a typical emission wavelength of 655 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**

Deremeter	Va	Unit		
Parameter	Min.	Max.	Unit	
Power supply voltage		6.0	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		11		
		Min.	Тур.	Max.	Unit	
	Peak Wavelength	645	655	660	nm	
RED	Output Power	2		4	mW	
	Operating Current (Ucc=3V)			45	mA	
	Peak Wavelength	830	845	855	nm	
IR	Output Power	2		4	mW	
	Operating Current (Ucc=3V)			60	mA	
Beam diam	eter @ 10 m			20	mm	
Beam diver	gence		2		mrad	
Supply Vo	Itage		3	6	VDC	
Dimensions	6		Ø 15 x 29		mm	
Material bo	dy	Brass (GND)				
Material ler	IS	Acryl				
Leads		3 x 100 mm AWG 24				

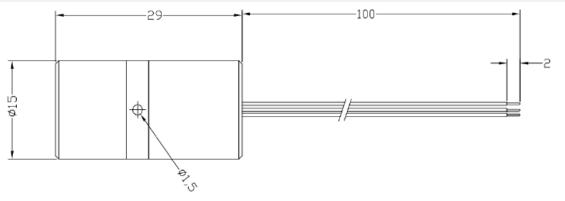




#### **Electrical Connection**

Lead	Function
Red wire	U <sub>CC</sub> 845 nm
Black wire	GND
White wire	U <sub>CC</sub> 655 nm

### **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.



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