

# APCM-6585-01-C2

- DUAL Color Laser Diode Module
- 655 nm + 845 nm, <1 mW</li>
- Single Beam Axis
- Automatic Power Control





### Description

**APCM-6585-01-C2** 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 **<1 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	Va	Unit	
	Min.	Max.	Offic
Power supply voltage		6.0	V
Optical Output Power		<1	mW
Operating temperature	0	+ 50	°C
Storage temperature	0	+ 85	°C

## Electro-Optical Characteristics (TCASE = 25°C)

Parameter	Values			11
	Min.	Тур.	Max.	Unit
Peak Wavelength	645	655	660	nm
Output Power	0.5		0.9	mW
Operating Current (V <sub>CC</sub> =3V)			45	mA
Peak Wavelength	830	845	855	nm
Output Power	0.5		0.9	mW
Operating Current (Vcc=3V)			60	mA
eter @ 10 m			20	mm
jence		2		mrad
age		3	6	VDC
	Ø 15 x 29 mm		mm	
у	Brass (GND)			
3	Acryl			
	3 x 100 mm AWG 24			
	Peak Wavelength  Output Power  Operating Current (Vcc=3V)  Peak Wavelength  Output Power  Operating Current (Vcc=3V)  ter @ 10 m  ence  age	Min.  Peak Wavelength  Output Power  Operating Current (V <sub>CC</sub> =3V)  Peak Wavelength  Output Power  Operating Current (V <sub>CC</sub> =3V)  ter @ 10 m  ence  age	Parameter         Min.         Typ.           Peak Wavelength         645         655           Output Power         0.5         830         845           Operating Current (Vcc=3V)         0.5         0.5         0.5           Operating Current (Vcc=3V)         0.5	Parameter         Min.         Typ.         Max.           Peak Wavelength         645         655         660           Output Power         0.5         0.9           Operating Current (V <sub>cc</sub> =3V)         45           Peak Wavelength         830         845         855           Output Power         0.5         0.9           Operating Current (V <sub>cc</sub> =3V)         60         20           ter @ 10 m         20         20           ence         2         3         6           age         3         6           y         Brass (GND)         Acryl





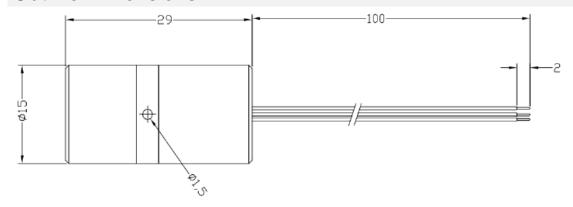
LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT

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### **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 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.



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