

APCM-5165-01-C2

- DUAL Color Laser Diode Module
- 520 nm + 655 nm, <1 mW
- Single Beam Axis
- Automatic Power Control





Description

APCM-5165-01-C2 is a compact size fix collimated **dual color** laser diode module with a typical emission wavelength of **520 nm + 655 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		
raranieter	Min.	Max.	Offic	
Power supply voltage		6.5	V	
Optical Output Power		<1	mW	
Operating temperature	0	+ 50	°C	
Storage temperature	0	+ 85	°C	

Electro-Optical Characteristics (TCASE = 25°C)

Parameter		Values			Heit
		Min.	Тур.	Max.	Unit
	Peak Wavelength	510	520	530	nm
GREEN	Output Power	0.5		0.9	mW
	Operating Current (V _{CC} =6V)			100	mA
	Peak Wavelength	645	655	660	nm
RED	Output Power	0.5		0.9	mW
	Operating Current (V _{CC} =6V)			45	mA
Beam diam	eter @ 10 m	20 mm			
Beam diver	gence	2 mrad		mrad	
Supply Vo	ltage	6 6.5 VDC		VDC	
Dimensions	8	Ø 15 x 29 mm		mm	
Material bo	dy	Brass (GND)			
Material ler	IS	Acryl			
Leads		3 x 100 mm AWG 24			





LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT

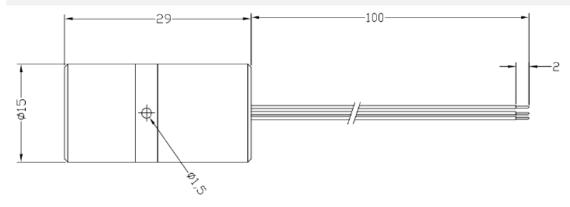
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Electrical Connection

Pin #	Function
Pin 1	V _{CC} 520 nm (Red wire)
Pin 2	GND (Black wire)
Pin 3	V _{CC} 655 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 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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