

APCM-5165-01-C3

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





Description

APCM-5165-01-C3 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 **<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.	Unit
Power supply voltage		6.5	V
Optical Output Powr		<5	mW
Operating temperature	0	+ 50	°C
Storage temperature	0	+ 85	°C

Electro-Optical Characteristics (TCASE = 25°C)

nit	
ım	
ιW	
nΑ	
ım	
ιW	
nΑ	
20 mm	
2 mrad	
6 6.5 VDC	
Ø 15 x 29 mm	
Brass (GND)	
Acryl	
3 x 100 mm AWG 24	
n n n	





LASER RADIATION
AVOID DIRECT EYE EXPOSURE
CLASS 3R LASER PRODUCT

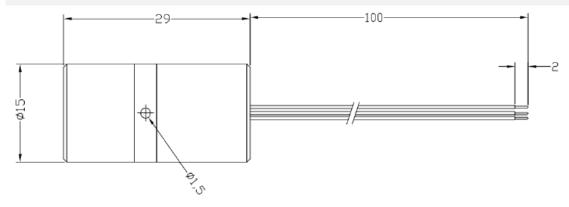
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Electrical Connection

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 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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