

Laser Module LC-LMD-650-12

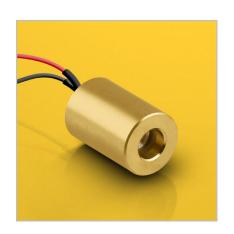
Laser Module Coaxial Aligned Ø 10.5 mm, 650 nm

Features

- 1. APC (auto power control) IC inside
- 2. The output beam is aligned to the centre-line of the module. The tolerance of θ /2 is \pm 0.05°. It is a special purpose, reliable visible laser module and features in small size and easy operation.



Part No. Indications



Part No. with 100 mm Flying Leads (1 mW Version only)

Absolute Maximum Ratings

Item	Sy	mbol	Rating	Unit	
Power supply voltage	\	V _{CC}	3.3	V	
Laser module optical output power	P _o	01	< 1	mW	
		05	< 5		
Operation temperature	Topr		-5 ~ 40	°C	
Storage temperature	-	Tstg	-20 ~ 60	°C	

03/23 / V5 / RH-IF / diverse-opto-systems/modules/Ic-Imd-650-12-laser-module

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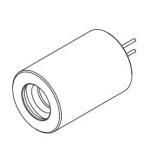
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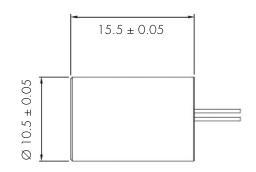


Electrical and Optical Characteristics ($T_{\rm C}$ = 25 °C)

Item	Symbol		Min.	Тур.	Max	Unit	Condition		
Wavelength	λ	01	-	655	-	nm	P _o = 1 mW		
		05					P _o = 4.5 mW		
Output power	P _{out}	01	0.5	-	0.9	mW			
		05	2	4.5	5				
Operation current	l op	01	-	30	40	mA	$P_o = 1 \text{ mW} V_{cc} = 3 \text{ V}$		
		05					$P_{o} = 4.5 \text{ mW} V_{cc} = 3 \text{ V}$		
Operation voltage	V _{op} 2.8		2.8	-	3.3	Volt			
Laser beam spot size at 10 m	< 15 mm								
Divergence angle	1.2 mrad								
Coaxial precision	θ<0.1 degree								
Mean time to failure (MTTF) 4.5 mW 25 °C	>10000 hrs								

Outline Dimensions (Units: mm)





Pin Assignment

Pin 1: V_{cc}

Pin 2: GND

Pin 3: NC (no external connection)



A type: Heat sink stand (-)

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