

Laser Module LC-LMD-650-12

Laser Module coaxial aligned \varnothing 10.5 mm, 650 nm

Features

- 1. APC (auto power control) IC inside
- $2.1\,\mathrm{mW}/5\,\mathrm{mW}$ output power
- 3. 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

Absolute Maximum Ratings

	Item	Symbol	Rating	Unit	
	Power supply voltage	V _{cc}	3.3	V	
-	Laser Module optical output power	P _o	< 5	mW	
	Operation temperature	Topr	-5 ~ 40	°C	
	Storage temperature	T _{stg}	-20 ~ 60	°C	

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Electrical and Optical Characteristics (T_c = 25 °C)

Item	Symbol	Min.	Тур.	Max	Unit	Condition			
Wavelength	λ	650	655	660	nm	P _e = 4.5 mW			
Output power	P _{out}	2	4.5	5	mW	V _{cc} = 3 V			
O		/(x) /	30	40	XXX	P _o = 4.5 mW			
Operation current	op				mA	V _{cc} = 3 V			
Operation voltage	V _{op}	2.8	-	3.3	Volt				
Laser Beam spot size at 10 m	< 15 mm								
Divergence angle	1.2 mrad								
Coaxial precision		山	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 (-)

