

Laser Module LC-LMD-450-01

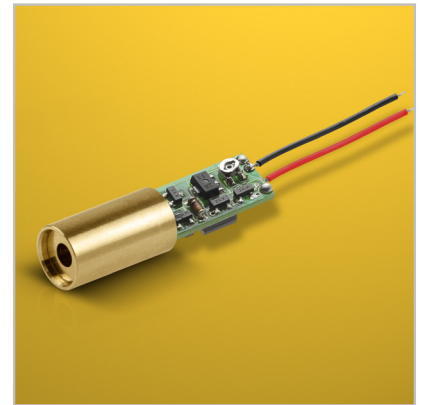
Ø 5 mm, 450 nm Laser Module

Features

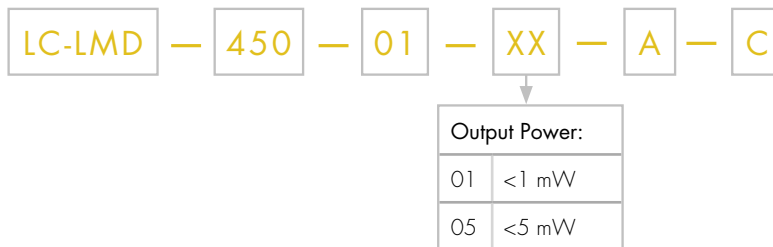
1. APC (auto power control) driver circuit
2. Wide input voltage range (3 ~ 5 VDC)
3. Stable output power of <1 mW
4. High quality glass lens for output beam

Applications

1. Industrial laser marker
2. Gun sight aiming
3. Laser leveler



Part No. with Flying Leads



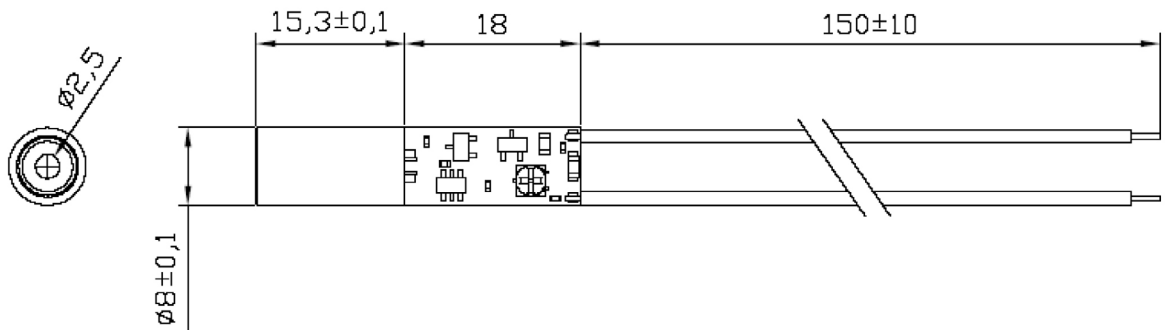
Absolute Maximum Ratings

Item	Symbol	Version	Rating	Unit
Power supply voltage	V_{CC}		6	V
Laser module optical output power	P_o	01	1	mW
		05	6	
Operation temperature	T_{opr}		0 ~ 60	°C
Storage temperature	T_{stg}		-40 ~ 80	°C

Electrical and Optical Characteristics ($T_c = 25\text{ }^\circ\text{C}$)

Item	Symbol	Version	Min.	Typ.	Max	Unit	Condition
Wavelength	λ	01	440	-	460	nm	$P_o = 1\text{ mW}$
		05		450			$P_o = 5\text{ mW}$
Output power	P_{out}	01	<1			mW	$V_{cc} = 3\text{ V}$
		05	<5				
Operation current	I_{op}	01	-	130	200	mA	$P_o = 1\text{ mW}, V_{cc} = 3\text{ V}$
		05					$P_o = 5\text{ mW}, V_{cc} = 3\text{ V}$
Operation voltage	V_{op}		3	-	5	Volt	
Laser Beam spot size at 10 m	< 15 mm						
Divergence angle	1.5 mrad						

Outline Dimensions (Units: mm)



Wire Assignment

Red: VCC
Black: GND

Laser Safety Precautions

1. Do not look into the laser beam directly by eyes. The laser beam may cause severe damage to human eyes.
2. Optical lens is made of glass. Do not contaminate lens by soiling, oil or chemical.