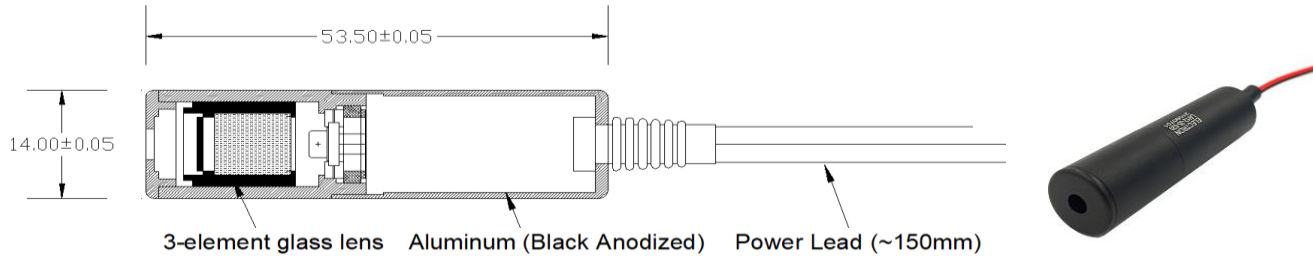


# DIODE LASER MODULE

## LAI serial - Casing is isolated from power line



### Feature -

- Auto optical output power control
- Low operating power consumption
- Polarity reverse protected
- High temperature operation is optional
- Focus adjustable by user
- Optical output assigned by customer
- Saving cost diode (T3 type) is available
- Case Material : Black Anodized (Aluminum)
- Available with Diffractive or Cylinder Optics
- Operation Voltage : 3V/5V/12V/24V

### General Specification -

Max. Optical output Power	~ 70% of max. diode power (w/o front cover) ~ 50% of max. diode power (w/ front cover)
Optical output Power	Within range +0 to -10% of customer assigned power
Wavelength	<i>See available laser diode reference</i>
Diode Power	<i>See available laser diode reference</i>
Operation Voltage	3V/5V/12V/24V DC +-10%
Operation Temperature	-10 °C ~ 40°C
Beam Size (without front cover )	7mm x 1.5mm
Beam Size (with front cover)	4mm x 1.5mm
Beam Divergence	< 1mrd
Collimating lens	3-element glass lens
Case Material	Black Anodized (Aluminum)
MTTF (Mean Time To Failure)	10000 hrs ( for standard type), 3000 hrs ( for T3 type)

### General Specification -

	model	pattern	fan angle
<b>Diffractive Optics</b>	CL-01	cross	8 deg.
	CL-02	line	58 deg.
	CL-03	line	20 deg.
	CL-04	line	90 deg.
	CL-06	line	37 deg.
	CL-07	line	5 deg.
	<b>Cylinder Optics</b>	LOG	line
LOG		line	customized

**Available laser diodes -**

	5mW	7mW	10mW	20mW	30mW	40mW	50mW	90mW	100mW up
405nm	●		●	●			●	●	●
455nm							●	●	●
488nm							●	●	
505nm					●				
515nm			●	●	●		●		●
635nm	●	●	●	●	●				●
650nm	●	●	●	●	●				●
660nm						●			●
670nm		●	●						
680nm					●				
780nm	●		●	●			●	●	●
808nm							●		●
830nm					●	●			●
850nm	●				●		●	●	●
940nm									●
980nm							●	●	●

MTTF > 10,000Hrs