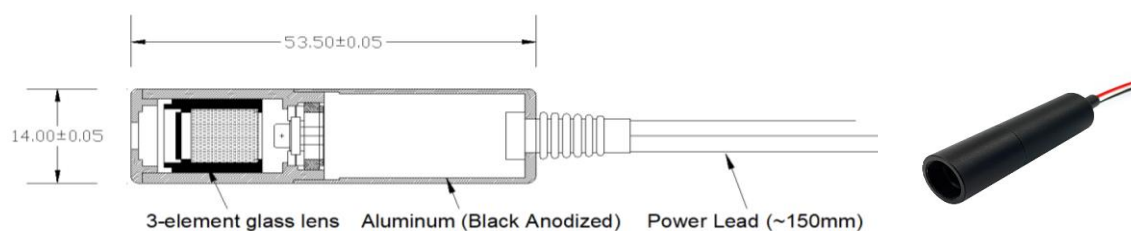


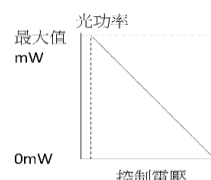
## DIODE LASER MODULE

### M5LA serial - External TTL Modulation Available (APC Type)



- Auto optical output power control
- Low operating power consumption
- Polarity reverse protected
- Various models available
- Focus distance assigned by customer
- Saving cost diode (T3 type) is available

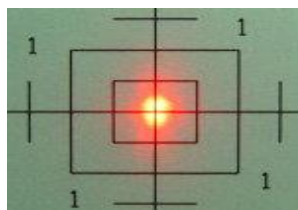
0.8V~5V



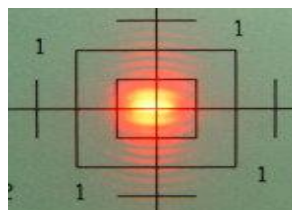
#### General Specification -

Modulation Frequency	CW to 10 KHz
Modulation Level	100%(signal on) & 20%(off) of optic power
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 +10 to -10% of customer assigned power
Wavelength	See available laser diode reference
Operation Voltage	5V/12V
Operation Temperature	-10 °C ~ 40°C
Diode Power	See available laser diode reference
Beam Diameter	See available laser diode reference
Spot Size	7mm (w/o front cover ), 4mm (w/ front cover)
Beam Divergence	<0.8mrd
Bore Sighting	<15mrd
Operating Current at 25°C	Refer to laser diode
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)

Spot size at 3 meter (W/C) (unit : cm)



Spot size at 10 meter (W/C) (unit : cm)



**Available laser diodes -**

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

MTTF &gt; 10,000Hrs