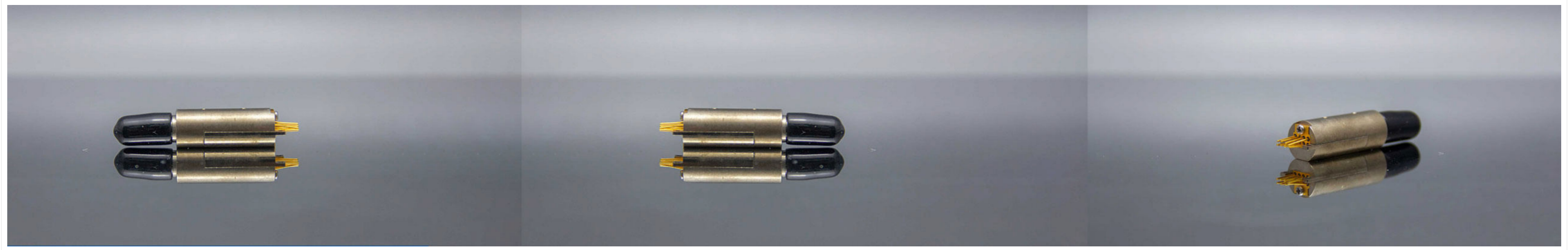


# 650nm Semiconductor Laser Module Series



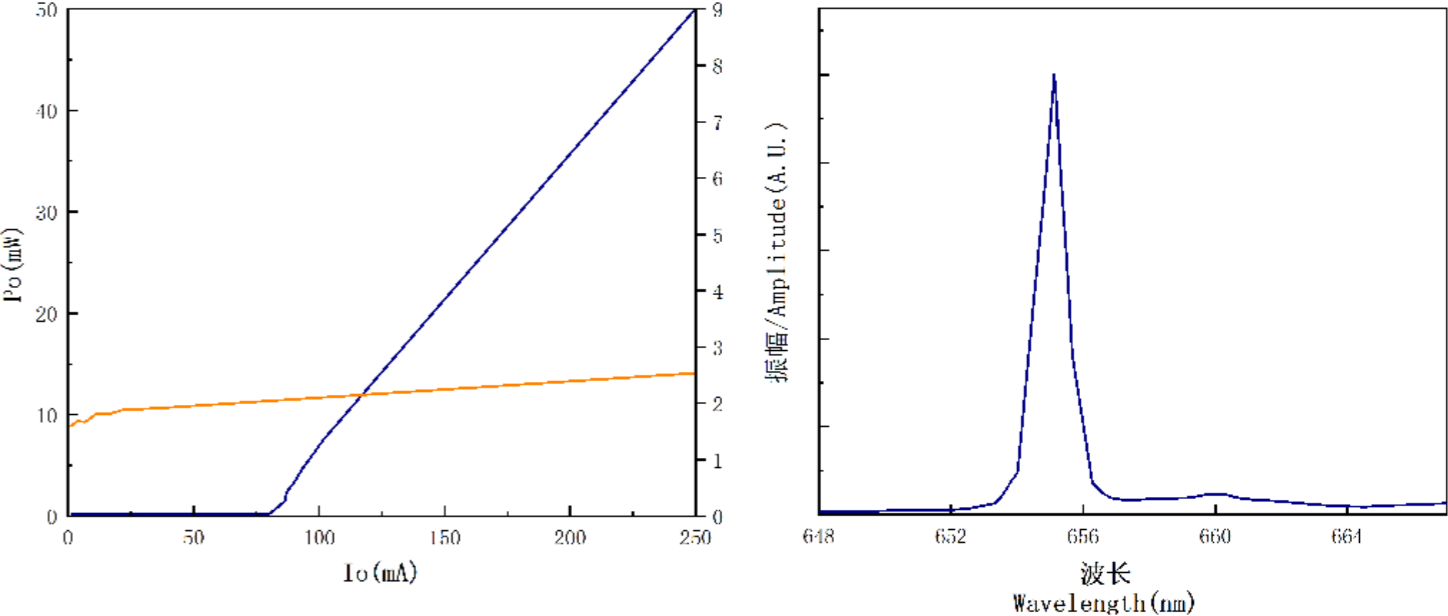
### FEATURES

- Output power: 2mW、 10mW、 5mW、 30mW、 50mW
- Wavelength: 650±5nm、 650±10nm
- Fiber core diameter: 4 μm、 100 μm、 6μm
- Numerical aperture: 0.13NA、 0.22NA

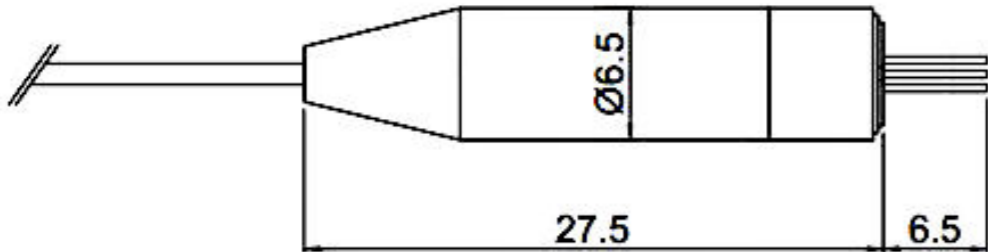
### APPLICATIONS

- Indication light
- Medical application
- Holographic imaging

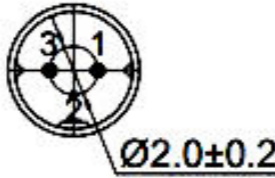
### CHARACTERISTICS OF 650NM 50MW SEMICONDUCTOR LASE (25°C)



### OUTLINE SIZE(mm)



Pin	Features
1	Laser (-)
2	Laser (+)
3	None



## PARAMETERS

Model		CL650-10-2mW-SML005	CL650-10-10mW-SML006	CL650-5-5mW-SML007	CL650-10mW-SML008	CL650-30mW-SML009	CL650-5-50mW-SML010	CL650-10-50mW-SML011
Optical Parameter	Continuous Output Power (mW)	2	10	5	10	30	50	50
	Center Wavelength (nm)	650±10	650±10	650±5	650±5	650±5	650±5	650±10
	Spectral Width (nm)	≤3	≤3	≤3	≤3	≤3	≤3	≤3
	Characteristics of Wavelength With Temperature (nm/°C)	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Electrical Parameter	Threshold Current (mA)	19	35	35	35	55	85	85
	Operating Current (mA)	26	70	55	70	150	250	250
	Operating Voltage (V)	2.3	2.2-2.4	2.2-2.4	2.2-2.4	2.2-2.4	2.2-2.4	2.3
	Differential Efficiency (W/A)	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	Thermistor Parameters (kΩ/β(25°C))	/	/	/	/	/	10±5%3477	/
	TEC Maximum Current (A)	/	/	/	/	/	1.8	/
	TEC Maximum Voltage (V)	/	/	/	/	/	3.2	/
Optical Fiber Parameter	Fiber Diameter (μm)	4	100	4	4	4	4	4
	Fiber Cladding Diameter (μm)	125	120	125	125	125	125	125
	Fiber Coating Diameter (μm)	250	140	250	250	250	250	250
	Numerical Aperture	0.13	0.22	0.13	0.13	0.13	0.13	0.13
	Connector	FC/PC, ST, SMA905						
Other Parameter	Operating Temperature (°C)	10-30	10-30	10-30	10-30	10-30	10-30	10-30
	Operating Relative Humidity (%)	75	75	75	75	75	75	75
	Storage Temperature (°C)	-20~70	-20~70	-20~70	-20~70	-20~70	-20~70	-20~70
	Storage Relative Humidity (%)	90	90	90	90	90	90	90
	Pin Soldering Temperature, Max (°C)	250(10 Sec.)	250(10 Sec.)	250(10 Sec.)	250(10 Sec.)	250(10 Sec.)	250(10 Sec.)	250(10 Sec.)

