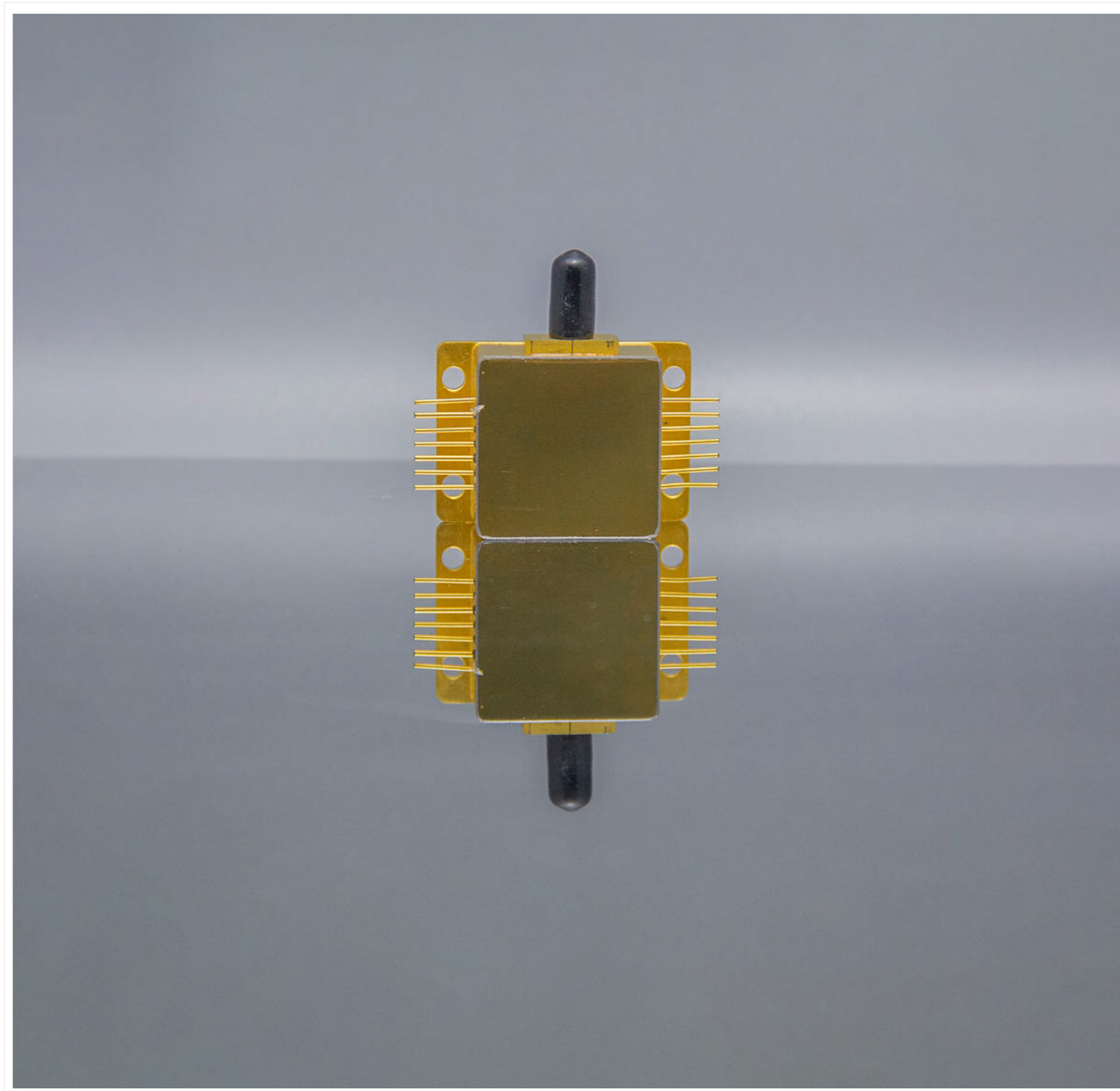


808nm Semiconductor Laser Module



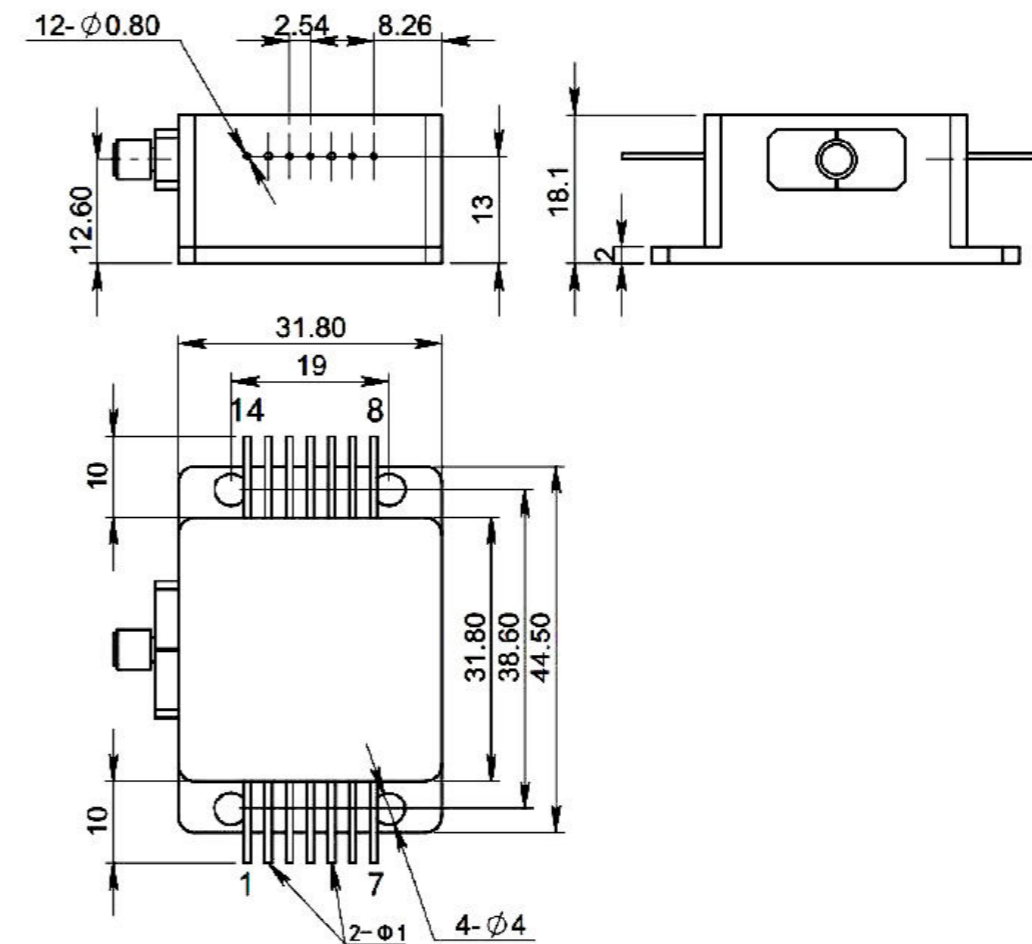
FEATURES

- Output power: 2W、4W、6W、7W、8W、8.5W、9W、15W
- Wavelength: $808\pm 10\text{nm}$
- Fiber core diameter: 200-400 μm 、105/200 μm 、105 μm 、200 μm 、400 μm
- Numerical aperture: 0.22NA

APPLICATIONS

- Flow cytometry
- Confocal microscopy
- Fluorescence excitation
- Granularity measurement
- Super-resolution microscopy

OUTLINE SIZE(mm)



PARAMETERS

Model	CL808-10-4W-SML012	CL808-3-4W-SML013	CL808-10-6W-SML014	CL808-10-2W-SML015	CL808-10-4W-SML016	CL808-10-6W-SML017	CL808-10-9W-SML018	
Optical Parameter	Continuous Output Power (W)	4	7	6	2	4	6	9
	Center Wavelength (nm)	808±10	808±10	808±10	808±10	808±10	808±10	808±10
	Spectral Width (nm)	≤6	≤6	<3	≤3	≤3	≤3	≤3
	Characteristics of Wavelength With Temperature (nm/°C)	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indication Light	Output Power (mW)	2	2	/	/	/	/	/
	Wavelength (nm)	650±10	650±10	/	/	/	/	/
	Voltage (V)	2.2, 5.0	2.2, 5.0	/	/	/	/	/
Electrical Parameter	Threshold Current (mA)	0.8	0.6	1.2	0.4	0.6	0.6	1.4
	Operating Current (mA)	5.0	12	7.6	2.5	5.5	6.5	11
	Operating Voltage (V)	1.9	1.9	2.1	1.9	2.1	2.1	2.0
	Differential Efficiency (W/A)	0.92	0.61	0.7-0.8	0.8-1.0	0.8-1.0	0.8-1.0	0.8-1.0
	PD Current (μA)	<3000	<2000	/	<3000	<3000	<3000	<3000
	Thermistor Parameters (kΩ/β(25°C))	10±5%/3450	10±5%/3450	/	/	10±5%/3450	10±5%/3450	10±5%/3450
	Fiber Cladding Diameter (um)	/	/	125,200	/	/	/	/
	Fiber Coating Diameter (um)	/	/	250,400	/	/	/	/
Optical Fiber Parameter	TEC Maximum Current (A)	/	6.0	/	6.0	6.0	6.0	6.0
	TEC Maximum Voltage (V)	/	9.8	9.8	9.8	9.8	9.8	9.8
	Fiber Diameter (μm)	200-400	200-400	105, 200	105	200	105	200
	Numerical Aperture	0.22	/	/	/	0.22	0.22	0.22
	Connector	SMA905	SMA905	FC, ST, SMA905	FC, ST, SMA905	FC, ST, SMA905	FC, ST, SMA905	FC, 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.)



PARAMETERS

Model	CL808-10-2W-SML019	CL808-10-4W-SML020	CL808-10-7W-SML021	CL808-10-8.5W-SML022	CL808-10-7W-SML023	CL808-10-8W-SML025	CL808-10-15W-SML026	
Optical Parameter	Continuous Output Power (W)	2	4	7	8.5	7	8	15
	Center Wavelength (nm)	808±10nm	808±10	808±10	808±10	808±10	808±10	808±10
	Spectral Width (nm)	≤6	≤6	≤6	≤6	≤6	<6	<6
	Characteristics of Wavelength With Temperature (nm/°C)	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indication Light	Output Power (mW)	2	2	2	2	2	2	2
	Wavelength (nm)	650±10	650±10	650±10	650±10	650±10	650±10	650±10
	Voltage (V)	2.2	2.2, 5.0	2.2, 5.0	2.2, 5.0	2.2, 5.0	2.2, 5.0	2.2, 5.0
Electrical Parameter	Threshold Current (mA)	0.4	0.8	1.4	1.4	0.6	1.6	1.54
	Operating Current (mA)	<2.5	5.0	8.5	11	12	10	9.5
	Operating Voltage (V)	2.1	1.9	1.9	2.02	1.9	2.4	4.2
	Differential Efficiency (W/A)	0.93	0.92	0.98	0.95	0.61	0.92	1.8
	PD Current (μA)	/	<3000	<3000	<3000	<2000	<2000	<3000
	Thermistor Parameters (kΩ/β(25°C))	/	10±5%/3450	10±5%/3450	10±5%/3450	10±5%/3450	10±5%/3450	10±5%/3450
	Fiber Cladding Diameter (um)	/	/	/	/	/	/	/
	Fiber Coating Diameter (um)	/	/	/	/	/	/	/
	TEC Maximum Current (A)	/	/	/	/	6.0	6.0	/
	TEC Maximum Voltage (V)	/	/	/	/	9.8	9.8	/
Optical Fiber Parameter	Fiber Diameter (μm)	200-400	200-400	200-400	200-400	200	200	400
	Numerical Aperture	0.22	0.22	0.22	0.22	/	/	/
	Connector	SMA905	SMA905	SMA905	SMA905	SMA905	FC/PC, ST, SMA905	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.)

