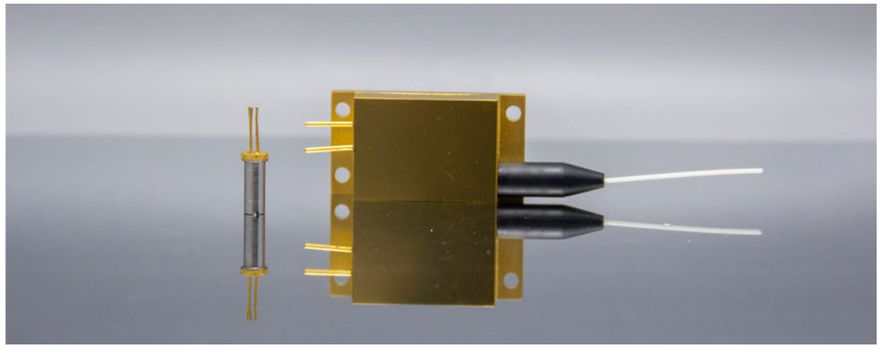
976nm Semiconductor Laser Module



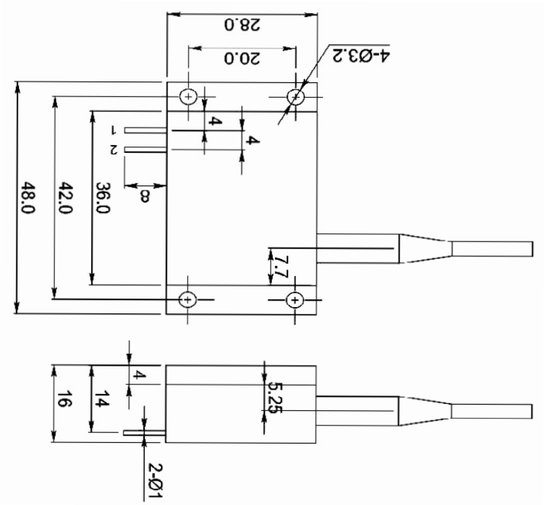
FEATURES

- Output power：10W、35W
- Wavelength：976±10nm
- Numerical aperture：0.22NA
- Fiber core diameter：105 μm、200 μm
- Anti-reflection protection of fiber laser

APPLICATIONS

- Pump source of Fiber Laser
- Medical Application
- Material Handling

OUTLINE SIZE(mm)



PARAMETERS

Model		CL976-10-10W-SML032	CL976-10-10W-SML033	CL976-10-35W-SML034
Optical Parameter	Continuous Output Power (mW)	10	10	35
	Center Wavelength (nm)	976±10	976±10	915±10
	Spectral Width (nm)	<6.0	≤6	<6
	Characteristics of Wavelength With Temperature (nm/℃)	0.35	0.3	0.3
	Anti-reflection protection（1030-1100nm）(dB)	>40	-	-
Indication light	Output Power (mW)	-	2	-
	Wavelength (nm)	-	650±10	-
	Voltage (V)	-	2.2，5.0	-
Electrical Parameter	Threshold Current (A)	0.7	0.62	0.62
	Operating Current (A)	12.5	12	12
	Operating Voltage (V)	1.9	1.9	2.06
	Differential Efficiency (W/A)	0.8	0.88	0.88
	Power Efficiency (%)	42	-	-
	PD Current (μA)	-	<2000	-
	Thermistor Parameters (kΩ/β(25℃))	-	10±5%/3450	-
	TEC Maximum Current (A)	-	6	-
	TEC Maximum Voltage (V)	-	9.8	-
Optical fiber	Fiber Diameter (um)	105	200	200
	Fiber Cladding Diameter (um)	125	-	125
	Fiber Coating Diameter (um)	250	-	250
	Numerical Aperture	0.22	-	0.22
	Connector	-	SMA905	FC/PC, ST, SMA905
	Fiber length (m)	1	-	-
Other Parameter	Operating Temperature (℃)	10-30	10-30	10-30
	Operating Relative Humidity (%)	75	75	75
	Storage Temperature (℃)	-20~70	-20~70	-20~70
	Storage Relative Humidity (%)	90	90	90
	Pin Soldering Temperature，Max (℃)	250(10 Sec.)	250(10 Sec.)	250(10 Sec.)

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