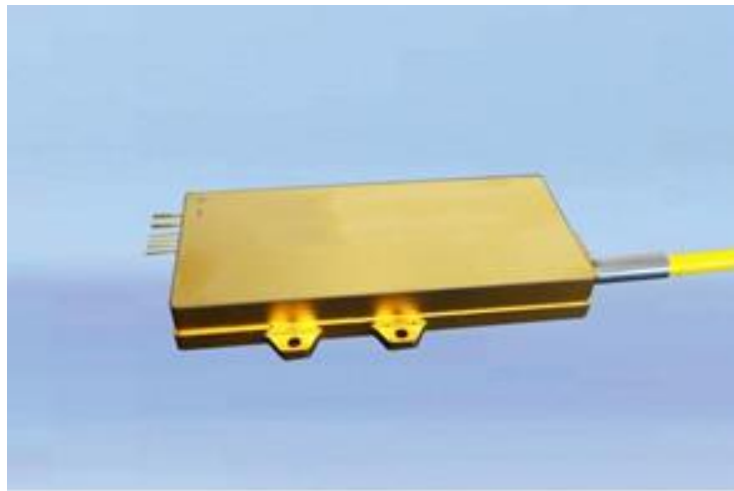


976nm 200W Wavelength-Stabilized Diode Laser



● Product Description

This industrial laser is an OEM version of a laser diode. As such, it is intended solely for integration into other equipment. This laser does not comply with IEC and CDRH requirements. The customer shall be responsible for IEC and CDRH certification of the system incorporating this industrial laser.

● Product features

Ultra-high Power Output; Wavelength Stabilization Technology; Multi-chip Beam Combining Design; Efficient Heat Dissipation Structure; Industrial-grade Package

● Part Number

MP-FP-976-200W

● Application area

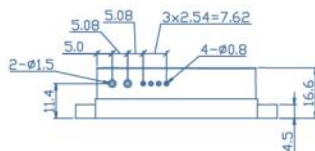
Industrial Material Processing | Fiber Laser Pumping | Medical Equipment |

Scientific Research Experiments | National Defense & Aerospace

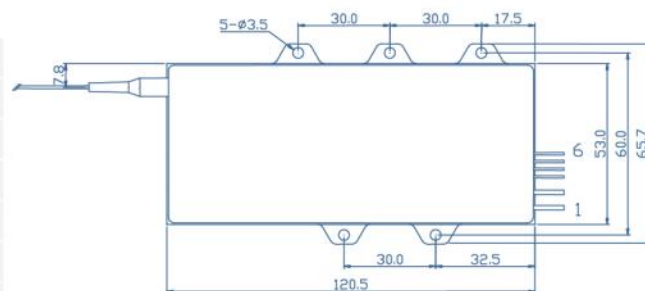
● Core parameters

Center Wavelength	Output Power
976nm	200W

● Dimension Drawing



Pin	Function
1	Laser diode +
2	Laser diode -
3	Photo diode (N)
4	Photo diode (P)
5	Thermistor
6	Thermistor





● General Parameters

Model Parameters

Item	Unit	Min.	Typ.	Max.
Output Power (Fiber Output)	W	190	200.0	—
Center Wavelength	nm	—	976	—
Wavelength Tolerance	nm	—	±0.5	—
Spectral Width (FWHM)	nm	—	0.5	1.0
Feedback Protection (1030–1100 nm)	dB	—	40	—
Fiber Core Diameter	μm	—	200	—
Fiber Cladding Diameter	μm	—	220	—
Numerical Aperture	—	—	0.22	—
Fiber Length	m	—	1 or 2	—



Electrical Parameters

Item	Unit	Min.	Typ.	Max.
Threshold Current	A	—	1.0	—
Operating Current	A	—	15.0	16.0
Operating Voltage	V	—	27.6	28.0
Slope Efficiency	—	—	13.5	—
Power Conversion Efficiency	%	40	15	—

Other Parameters

Item	Unit	Min.	Typ.	Max.
Operating Temperature*	°C	—	—	45
Operating Humidity	%RH	—	—	75
Storage Temperature	°C	-20	—	80
Soldering Temperature	°C	—	250 (10s)	—

Internal Thermistor Reading

Note 1: Module specifications and dimensions are subject to change without prior notice.

Note 2: Anti-static measures must be taken.

Note 3: The minimum fiber bend diameter shall be 300 times larger than the core diameter.

Note 4: Service life will be shortened if used improperly or beyond the operating conditions.

Note 5: Storage and operation below ambient dew point require a non-condensing environment.

Characteristic Curves

