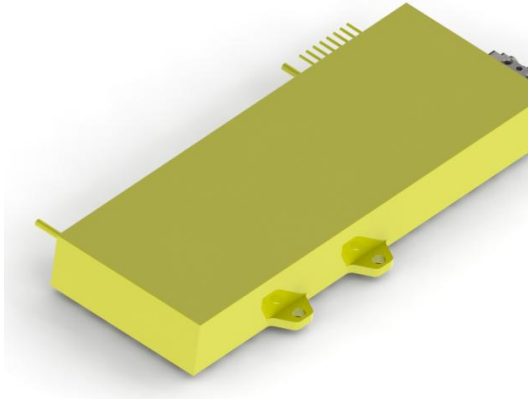
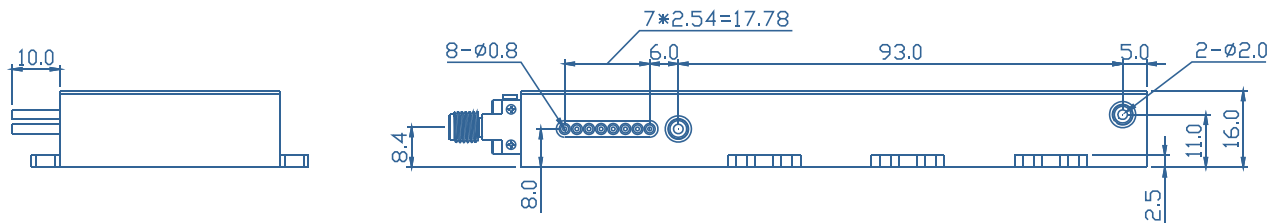


C-Series High Power Laser Diode Module

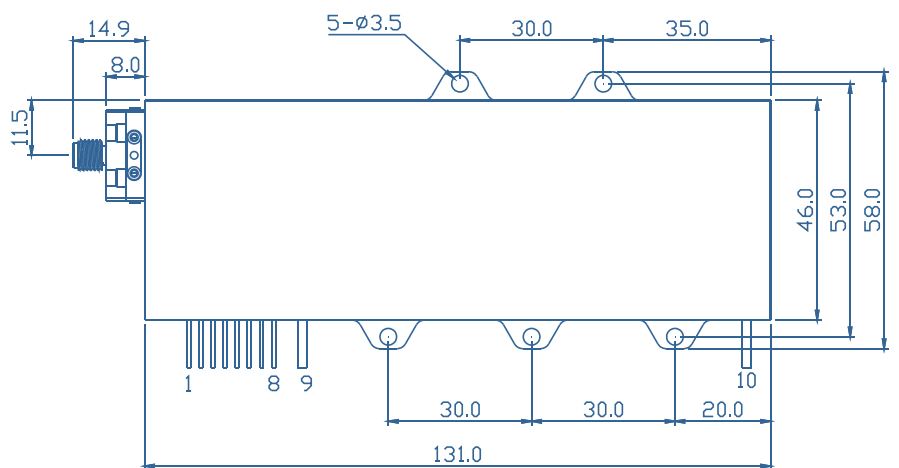


- | | |
|--------------|--|
| Features | ◆ High output power of 30 W |
| | ◆ 200μm/0.22NA multimode optical fiber |
| | ◆ Center wavelength 1470±10nm |
| Applications | ◆ Medical Application |

Package Dimensions (mm)



Pin-out Assignment	
Pin	Function
1	Fiber Connector Detector LED (-)
2	Fiber Connector Detector LED (+)
3	PD(N)
4	PD(P)
5	Aiming Beam (+5V) *
6	PD(N)
7	Aiming Beam (0V)
8	PD(P)
9	Thermistor
10	Thermistor
11	LD (+)
12	LD (-)



*Optional built-in constant power circuit, 5V power supply needed.

Typical Device Performance (25°C)

	Min	Typical	Max	Unit
Optical				
CW Output Power	-	30	-	W
Center Wavelength	-	1470±10	-	nm
Spectral Width (90% of Power)	-	<10	-	nm
Wavelength Shift with Temperature	-	0.3	-	nm / °C
Electrical				
Threshold Current	-	0.7	-	A
Operating Current	-	9.8	-	A
Operating Voltage	-	21	-	V
Slope Efficiency	-	3.3	-	W / A
Power Conversion Efficiency	-	15	-	%
Aiming laser **				
CW Output Power	-	2.0	-	mW
Center Wavelength	-	650±10	-	nm
Operating Current	-	<30	-	mA
Operating Voltage	-	5	-	V
Fiber*				
Fiber Core Diameter	-	200	-	μm
Fiber Cladding Diameter	-	220	-	μm
Fiber Buffer Diameter	-	500	-	μm
Numerical Aperture	-	0.22	-	-
Fiber Length	-	1-5	-	m
Fiber Connector	-	SMA905	-	-

* Customized fiber and connector available.

Absolute Ratings

	Min	Max	Unit
Operating Temperature	15	35	°C
Operating Relative Humidity	-	75	%
Cooling Mode	-	Water cooling (25°C)	-
Storage Temperature	-20	80	°C
Storage Relative Humidity	-	90	%
Lead Soldering Temperature (10 s max)	-	250	°C