

Single Mode Fiber Coupled Laser Module

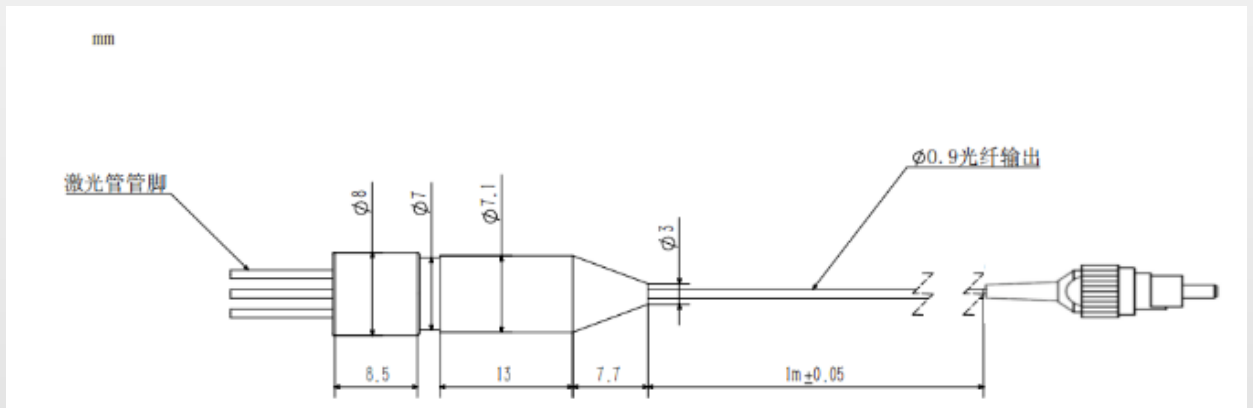


Features

- 830nm Diode Laser
- 4um SM Fiber
- Fast Rise Time

Model Number	IR830-SMF80
Center Wavelength ⁽¹⁾	830nm
Operating Voltage (DC)	2.6V
Operating Current	Typ: 210mA Max:240mA
Output Power ⁽¹⁾	80 mW
Fiber coupling efficiency	30%

Dimensions (Unit: mm)



⁽¹⁾ after fiber, at 25°C

- Customer is responsible for suitable heat sinking

Specifications

Mechanical Specifications		Min	Typ	Max
Laser Head	Diameter (mm)	-	8	-
	Length (mm)	-	29.2	-
	Weight (g)	-	10	-
Housing Material		SUS304		
Optical Specifications		Min	Typ	Max
Center Wavelength @25°C		815	830	840
Spectral Width(FWHM)		-	-	2
Output Power(mW)@25°C		-	80	-
Power Stability @25°C over 1h		-	±2%	±5%
M ²		-	2.1	2.5
Longitudinal Mode		Single Mode Fiber		
Output Power Mode		CW		
Laser Class		3B		
Fiber Specifications		Min	Typ	Max
Fiber Type		4./125um with 900um loose tube		
Fiber Numerical Aperture		-	0.13	-
Fiber Length (m)			1	1.1
Fiber Termination		FC/PC		
Reliability		Min	Typ	Max
Operating Case Temperature Range (°C)		-10	-	60
Storage Temperature (°C)		-40	-	85
Environmental Humidity (RH, %)		5	-	85
RoHS Compliance Declaration		Yes		

Beam Picture



Fiber Connector Picture

