

# Single Mode Fiber Coupled Laser Module

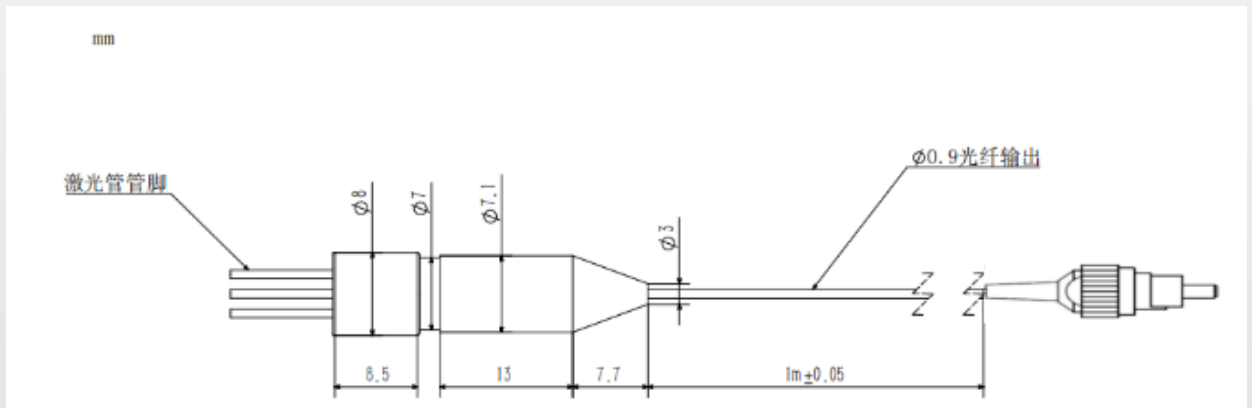


## Features

- 850nm Diode Laser
- 4um SM Fiber
- Fast Rise Time

Model Number	IR850-SMF80
Center Wavelength <sup>(1)</sup>	850nm
Operating Voltage (DC)	2.7V
Operating Current	Typ: 210mA Max:240mA
Output Power <sup>(1)</sup>	80 mW
Fiber coupling efficiency	30%

## Dimensions (Unit: mm)



<sup>(1)</sup> after fiber, at 25°C

- Customer is responsible for suitable heat sinking

<b>Specifications</b>				
<b>Mechanical Specifications</b>		<b>Min</b>	<b>Typ</b>	<b>Max</b>
Laser Head	Diameter (mm)	-	8	-
	Length (mm)	-	29.2	-
	Weight (g)	-	10	-
Housing Material		SUS304		
<b>Optical Specifications</b>		<b>Min</b>	<b>Typ</b>	<b>Max</b>
Center Wavelength @25°C		840	850	860
Spectral Width(FWHM)		-	-	2
Output Power(mW )@25°C		-	80	-
Power Stability @25°C over 1h		-	±2%	±5%
M <sup>2</sup>		-	2.1	2.5
Longitudinal Mode		Single Mode Fiber		
Output Power Mode		CW		
Laser Class		3B		
<b>Fiber Specifications</b>		<b>Min</b>	<b>Typ</b>	<b>Max</b>
Fiber Type		4./125um with 900um loose tube		
Fiber Numerical Aperture		-	0.13	-
Fiber Length (m)			1	1.1
Fiber Termination		FC/PC		
<b>Reliability</b>		<b>Min</b>	<b>Typ</b>	<b>Max</b>
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



FC

SMA905

FC/APC