

Fiber Coupled Laser

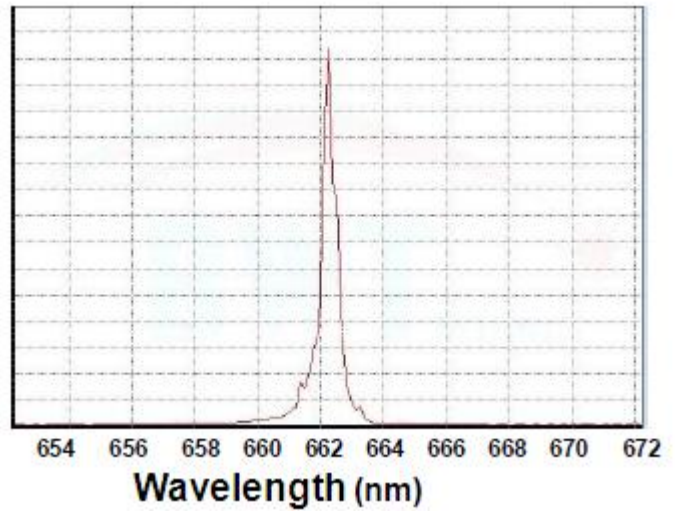
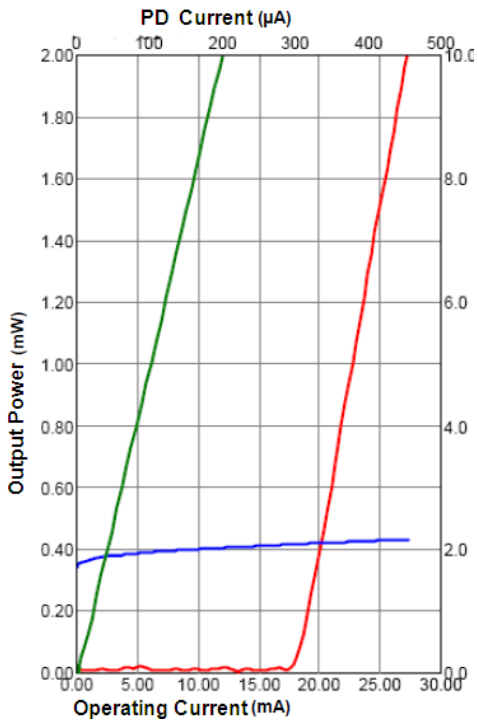


SM-R660D002

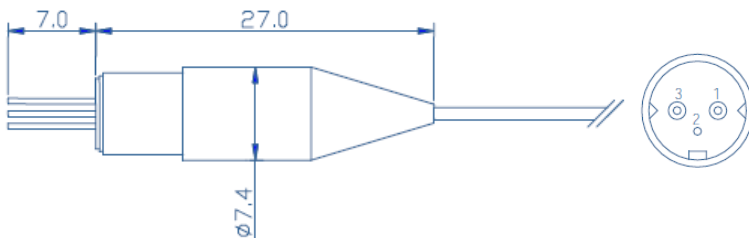
Applications

- Laser Pointing

Laser Output Characteristics & Spectrum



Dimensions and Pin Configuration (unit : mm)



1. Laser (-)
2. Laser (+), PD(N), Case
3. PD (P)

Specifications

Model Number	SM-R660D002	
Mechanical Specification		
Laser Head Size (mm)	Dia7.4 * 34.0	
Optical Specifications		
. Center Wavelength (nm)	660	
. Wavelength Tolerance (nm)	+/-5	
. Output Power (mW)	2	
. FWHM (nm)	<3	
. Output Power Mode	CW	
. Wavelength VS Temperature Coefficient (nm/° C)	~0.2	
Fiber Specifications		
. Fiber Core Diameter (um)	4	
. Numerical Aperture (NA)	0.13	
. Connector	SMA-905	
Electrical Specifications		
. Operating Voltage without PCB (V)	2.2~2.4	
. Operating Voltage with PCB (V)	5	Proposal
. Reverse Resistance Voltage (Vre)	2	
. Operating Current (mA)	28	
. Threshold Current (mA)	19	
. PD Monitor Current (uA)	100~400	
. Differential Efficiency (mW/mA)	0.22	
Reliability Specification		
. Operating Temperature Range (° C)	10~30	
. Storage Temperature (° C)	-20~70	
. Lifetime (MTTF) (h)	>5000	
. Soldering Temperature (° C)	260 (10sec)	

Fiber Coupled Laser

Instruction:

1. Avoid direct eye or skin exposure to laser
2. Take antistatic action during transportation, storage and operating. And the pins are connected short circuit wires during transportation and storage.
3. Select soldering to connect wires when the operating current is more than 6A. And the wires should be closed to the end of pins, the temperature must be lower than 260 ° C, the soldering time less than 10 secs.
4. Clean the fiber end-face before using.
5. Select constant current power supply. Avoid surging during operating.
6. Operating under rated current and power.
7. Be sure the laser achieve a good heat dispersal.
8. Avoid bending fiber with wide angle. The bending radius should be more 300 times than fiber outer diameter.
9. Operating temperature is 10 ° C ~ 30 ° C.
10. Storage temperature is -20 ° C ~ 70° C.