

Φ6.5mm Plastic 650nm Laser Module

P_o: < 1mW

Features

1. APC (auto power control) IC inside
2. High quality PC lens
3. Low current consumption of the APC circuit
4. Superior laser beam profile



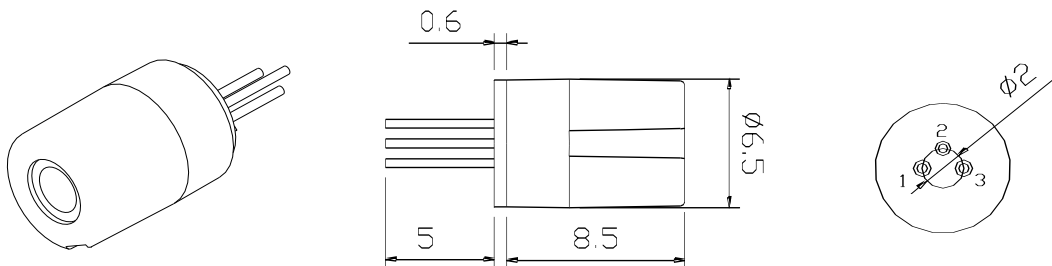
Absolute maximum ratings

Item	Symbol	Rating	Unit
Power supply voltage	V _{cc}	3.3	V
Laser Module optical output power	P _o	<1	mW
Operation temperature	T _{opr}	0~40	°C
Storage temperature	T _{stg}	0~60	°C

Electrical and optical characteristics (T_c=25 °C)

Item	Symbol	Min.	Typ.	Max	Unit	Condition
Wavelength	λ	-	655	-	nm	P _o = 1mW
Operation current	I _{op}	-	-	35	mA	P _o = 1mW V _{cc} =3V
Operation voltage	V _{op}	2.5	-	3.3	Volt	
Laser Beam spot size at 10m	<10mm					
Divergence angle	1.1 mrad					
Mean time to failure (MTTF) 25°C	>10000 hrs					

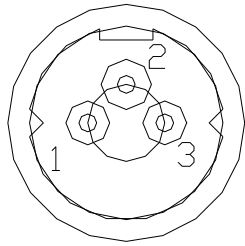
Outline dimensions (Units: mm)



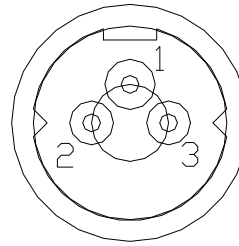
Laser Safety Precautions

1. Do not look into the laser beam directly by eyes. The laser beam may cause severe damage to human eyes.
2. Optical Lens is made of plastic or glass. Do not contaminate lens by soiling, oil or chemical..

PIN Assignment:



A type : Heat sink stand (-)



B type :Heat sink stand (+)

Pin 1 : Vcc

Pin 2 : GND

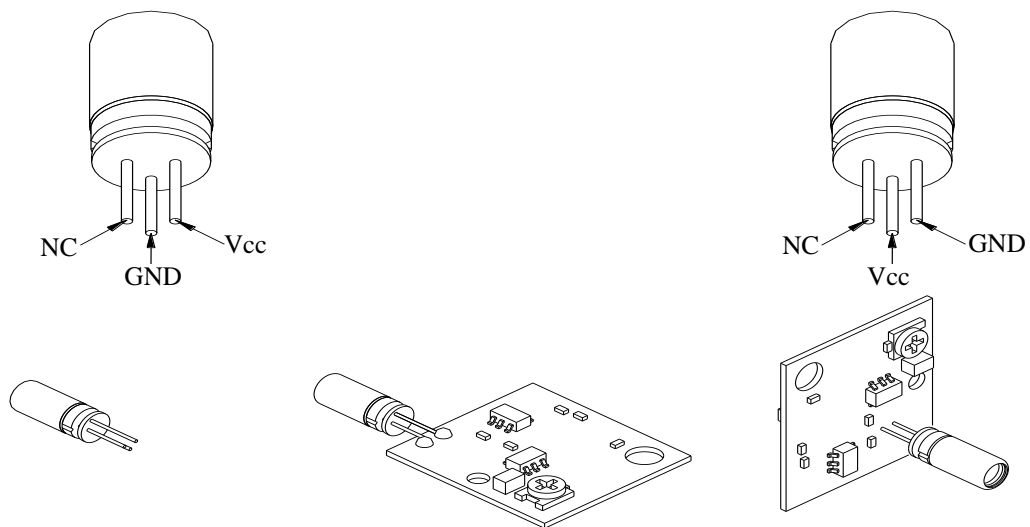
Pin 3 : NC (No external connection)

Instruction manual

1. DC Power connection mode 1

A type : Heat sink stand (-)

B type :Heat sink stand (+)



2. DC Power connection mode 2

