

Φ4mm 780nm Laser Module

Features

- APC (auto power control) IC inside
- Low current consumption of the APC circuit
- Surge current protection
- High quality lens for output beam

Absolute maximum ratings

Parameter	Symbol	Rating	Unit
Power supply voltage	V _{cc}	3.3	V
Laser Module optical output power	P _o	<6	mW
Operation temperature	T _{opr}	0~40	°C
Storage temperature	T _{stg}	0~60	°C

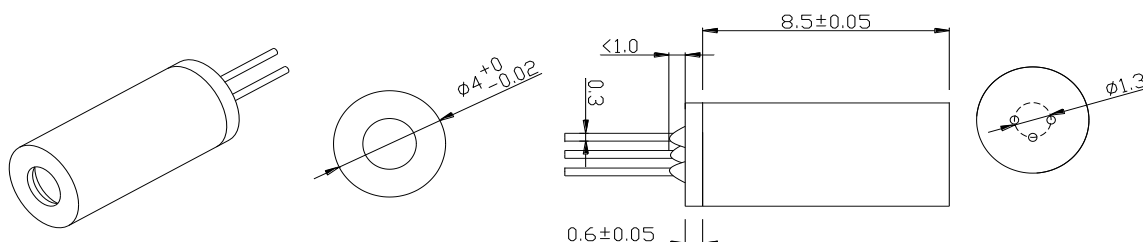


Electrical and optical characteristics (T_c=25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Wavelength	λ	770	785	795	nm	P _o = 5mW
Operation current	I _{op}	-	-	45	mA	P _o = 5mW ; V _{cc} =3V
Optical output power	P _{out}	5		6	mW	
Operation voltage	V _{op}	2.5	-	3.3	Volt	
Laser Beam spot size at 10m				<20mm		
Divergence angle				2 mrad		

* Sufficient heat dissipation is required for CW operation.

Outline dimensions (Units : mm)



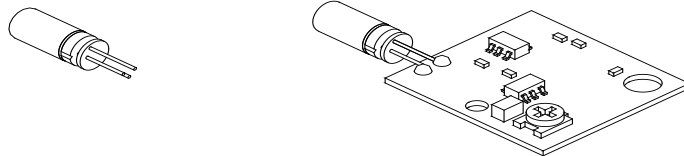
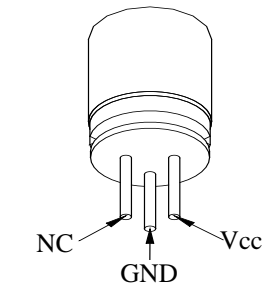
Aperture Size : 1.3mm

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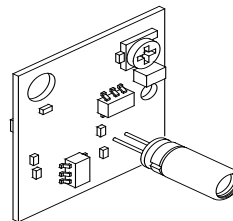
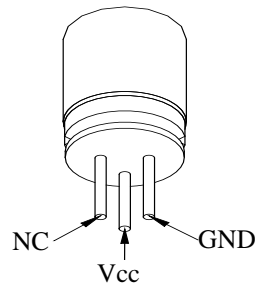
Instruction manual

DC Power connection mode 1

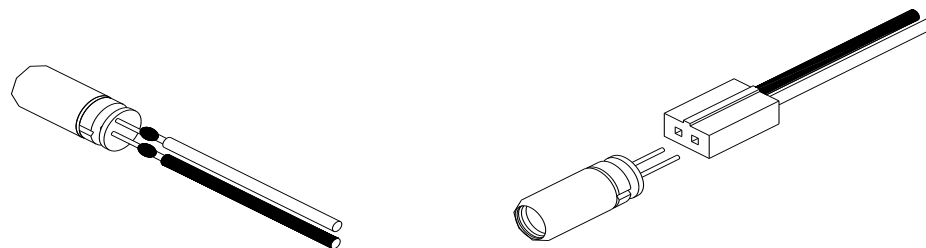
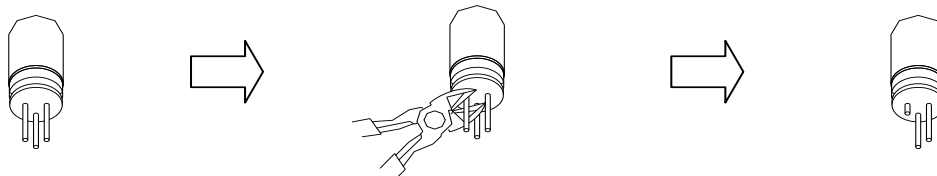
A type : Heat sink stand (-)



B type : Heat sink stand (+)



DC Power connection mode 2



● Precautions

- * Do not operate the device above maximum ratings. Doing so may cause unexpected and permanent damage to the device.
- * Take precautions to avoid electrostatic discharge and/or momentary power spikes. A change in the characteristics of the laser or premature failure may result.
- * Proper heat sinking of the device assures stability and lifetime. Always ensure that maximum operating temperatures are not exceeded.
- * Observing visible or invisible laser beams with the human eye directly, or indirectly, can cause permanent damage. Use a camera to observe the laser.
- * No laser device should be used in any application or situation where life or property is at risk in event of device failure.
- * Specifications are subject to change without notice. Ensure that you have the latest specification by contacting us prior to purchase or use of the product.

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