

Φ8.0mm 450nm Blue Laser Module

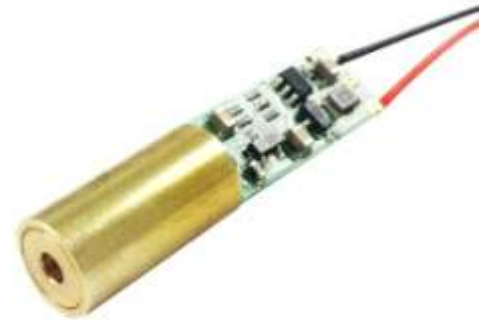
Features

APC (auto power control) driver circuit

Wide input voltage range (3~ 6VDC)

Stable Output power of < 1mW

High quality glass lens for output beam



Absolute maximum ratings

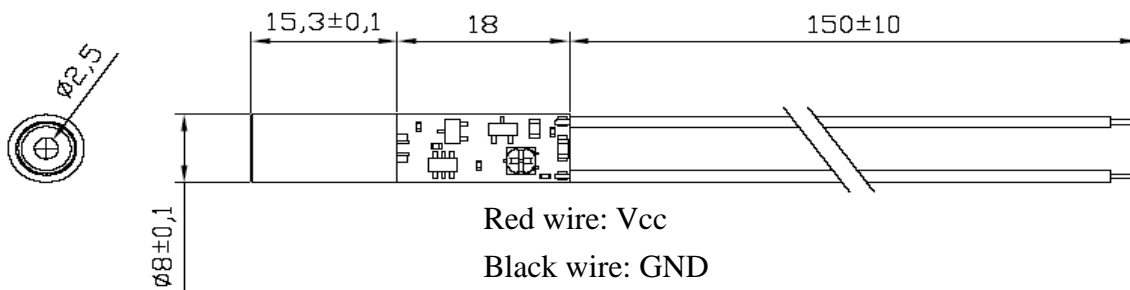
Parameter	Symbol	Rating	Unit
Power supply voltage	V _{cc}	6	V
Laser Module optical output power	P _o	1	mW
Operation temperature	T _{opr}	0~60	°C
Storage temperature	T _{stg}	-40~80	°C

Electrical and optical characteristics (T_c=25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Wavelength	λ	440		460	nm	P _o = 1mW
Operation current	I _{op}	-	130	200	mA	P _o = 1mW ; V _{cc} =3V
Optical output power	P _{out}			<1	mW	V _{cc} =3V
Operation voltage	V _{op}	3	-	5	Volt	
Laser Beam spot size at 10m				<15mm		
Divergence angle				1.5 mrad		

* Sufficient heat dissipation is required for CW operation.

Outline dimensions (Units : mm)



• 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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