

***Φ8mm 635nm Laser Module***

***P<sub>o</sub>: < 1mW***



Features

1. APC (auto power control) IC inside
2. Low current consumption of the APC circuit
3. Surge current protection
4. High quality lens for output beam

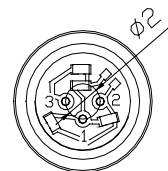
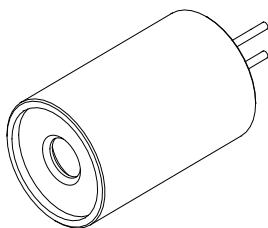
Absolute maximum ratings

Item	Symbol	Rating	Unit
Power supply voltage	V <sub>cc</sub>	3.3	V
Laser Module optical output power	P <sub>o</sub>	<1	mW
Operation temperature	T <sub>opr</sub>	0~40	°C
Storage temperature	T <sub>stg</sub>	0~60	°C

Electrical and optical characteristics (T<sub>c</sub>=25 °C)

Item	Symbol	Min.	Typ.	Max	Unit	Condition
Wavelength	λ	-	634	-	nm	P <sub>o</sub> = 1mW
Operation current	I <sub>op</sub>	-	-	30	mA	P <sub>o</sub> = 1mW V <sub>cc</sub> =3V
Operation voltage	V <sub>op</sub>	2.5	-	3.3	Volt	
Laser Beam spot size at 10m				<10mm		
Divergence angle				1.1 mrad		
Mean time to failure (MTTF) 25°C				>5000 hrs		

Outline dimensions (Units: mm)



Aperture Size : 2.5mm

**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.

*\* For reference only. Contents above are subject to change without notice.*

Contact

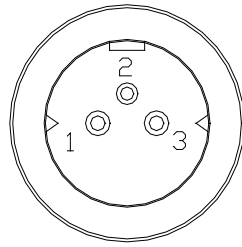
For US, Canada  
For EU  
For Japan

Ayase America Inc.  
Ayase Europe GmbH  
Ayase Co., Ltd.

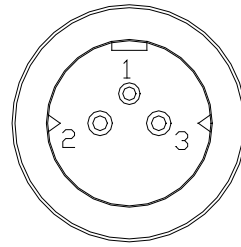
e-mail: [info@ayaseamerica.com](mailto:info@ayaseamerica.com)  
e-mail: [info@ayase-europe.de](mailto:info@ayase-europe.de)  
e-mail: [info@ayasecorporation.com](mailto:info@ayasecorporation.com)

+1-408-988-5277  
+49-0-6122-533-811  
+81-45-532-9501

PIN Assignment:



**A type** : Heat sink stand (-)



**B type** :Heat sink stand (+)

**Pin 1** : Vcc

**Pin 2** : GND

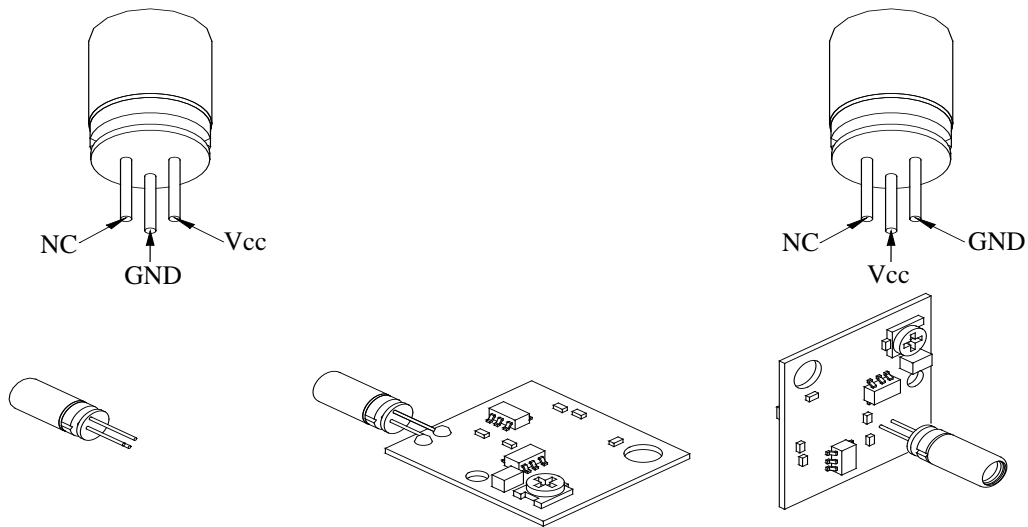
**Pin 3** : NC ( No external connection )

Instruction manual

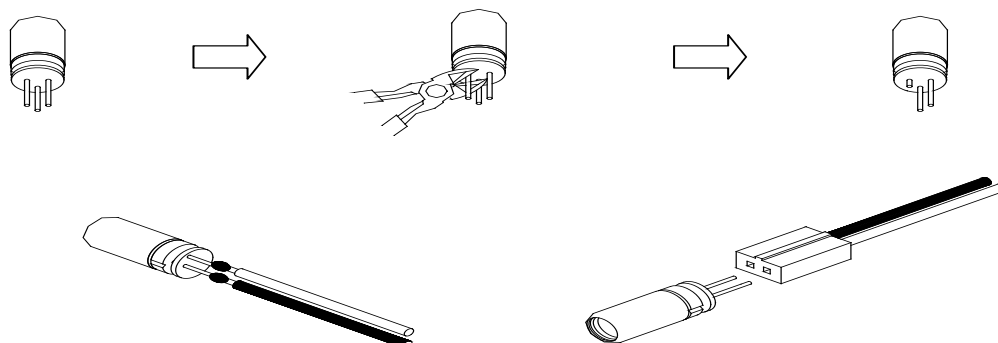
1. DC Power connection mode 1

**A type** : Heat sink stand (-)

**B type** :Heat sink stand (+)



2. DC Power connection mode 2



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Contact

For US, Canada Ayase America Inc.  
 For EU Ayase Europe GmbH  
 For Japan Ayase Co., Ltd.

e-mail: [info@ayaseamerica.com](mailto:info@ayaseamerica.com)  
 e-mail: [info@ayase-europe.de](mailto:info@ayase-europe.de)  
 e-mail: [info@ayasecorporation.com](mailto:info@ayasecorporation.com)

+1-408-988-5277  
 +49-0-6122-533-811  
 +81-45-532-9501