

Infrared APC Laser Module

APCD-780-01-C3-A/B

6-2D-LM78-003 Rev.01

$\Phi 4\text{mm}$ 780nm Laser Module

$P_o < 3\text{mW}$

Features

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



Absolute maximum ratings

Item	Symbol	Rating	Unit
Power supply voltage	V_{cc}	3.3	V
Laser Module optical output power	P_o	<3	mW
Operation temperature	T_{opr}	0~40	$^{\circ}\text{C}$
Storage temperature	T_{stg}	0~60	$^{\circ}\text{C}$

Electrical and optical characteristics ($T_c=25^{\circ}\text{C}$)

Item	Symbol	Min.	Typ.	Max	Unit	Condition
Wavelength	λ	-	785	-	nm	$P_o=3\text{mW}$
Operation current	I_{op}	-	-	35	mA	$P_o=3\text{mW}$ $V_{cc}=3\text{V}$
Operation voltage	V_{op}	2.5	-	3.3	Volt	
Laser Beam spot size at 10m				<20	mm	
Divergence angle				2	mrad	
Mean time to failure (MTTF) 25 $^{\circ}\text{C}$				>10000	hrs	

Outline dimensions (Units: mm)



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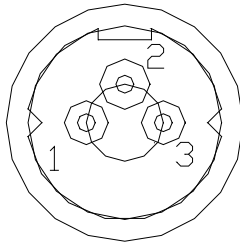
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Aperture Size : 1.3mm

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:

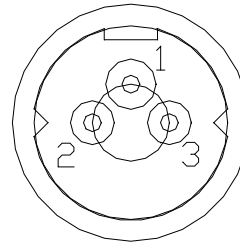


A type : Heat sink stand (-)

Pin 1 : Vcc

Pin 2 : GND

Pin 3 : NC (No external connection)

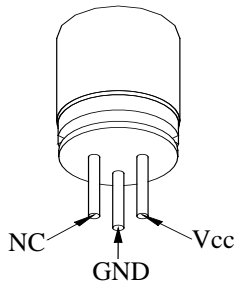


B type :Heat sink stand (+)

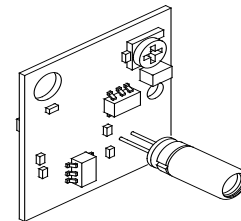
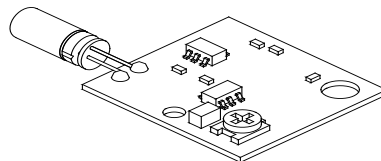
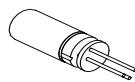
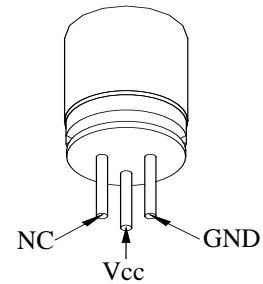
Instruction manual

1. DC Power connection mode 1

A type : Heat sink stand (-)



B type :Heat sink stand (+)

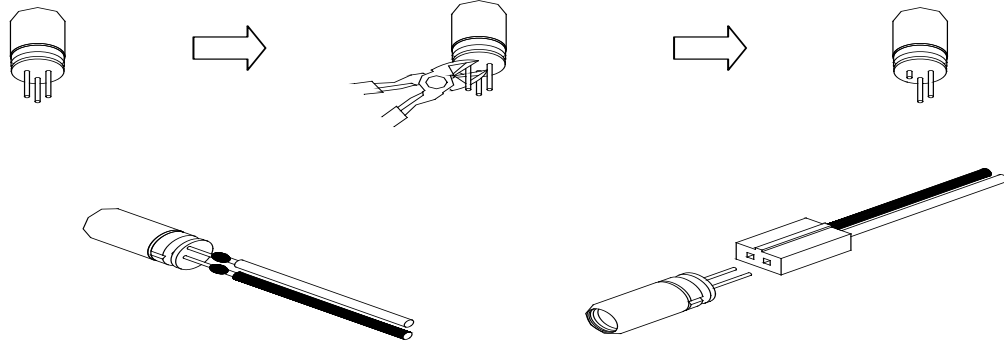


2. DC Power connection mode 2

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** 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
e-mail: info@ayase-europe.de
e-mail: info@ayasecorporation.com

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