



## APCD-650-07-C2



### TECHNICAL DATA

### Red diode laser module

APCD-650-07 is a multi purpose small size red diode laser module featuring a fixfocus acrylic lens, with integrated APC circuitry for long time stable operation

#### Features

- Small size (Ø 3.3 x 8.0 mm)
- Fixfocus
- APC (auto power control) IC integrated
- Low current consumption
- Surge current protection
- Excellent beam quality
- **Laser class II**

#### Absolute Maximum Ratings ( $T_C=25^\circ\text{C}$ )

Item	Symbol	Value	Unit
Power Supply Voltage	$V_{CC}$	3.3	V
Output Power	$P_O$	<1	mW
Operating Temperature	$T_C$	0 ... +40	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	0 ... +60	$^\circ\text{C}$

#### Specifications ( $T_C=25^\circ\text{C}$ , $P_O<1\text{mW}$ , $V_{CC}=3\text{V}$ )

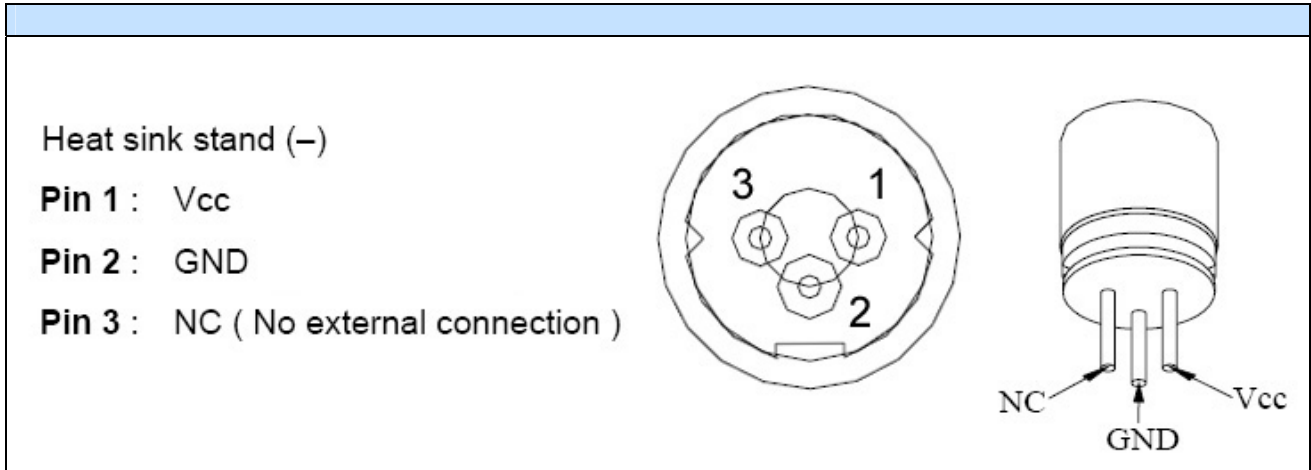
	Min.	Typ.	Max.	Unit
<b>Optical</b>				
Center Wavelength $\lambda_c$	650	655	660	nm
Output Power	0.5	-	0.9	mW
Divergence angle	2			mrad
Output Aperture	1.8			mm
Beam Size at 10M	20			mm
<b>Electrical</b>				
Current draw	-	-	35	mA
Supply voltage	2.5	-	3.3	V
<b>General</b>				
Body	Brass			
Dimensions	3.3 x 8.0			mm
Lens	Acryl			
Mean time to failure (MTTF)	>10000			h

The above specifications are for reference purpose only and subjected to change without prior notice



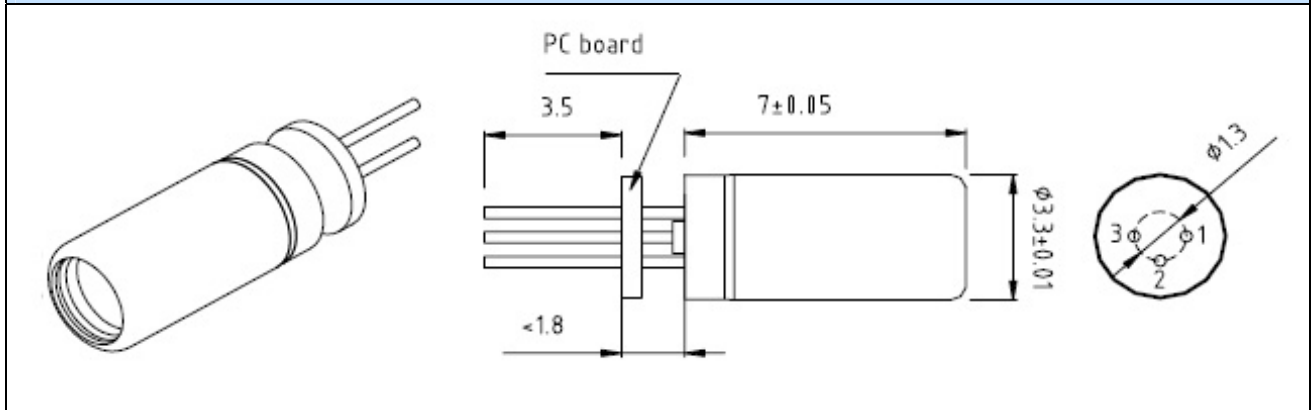


## Electrical Connection :



## Outline Dimension :

Unit: mm



## Cautions

1. Do not operate the device above the maximum rating condition, even momentarily. It may cause unexpected permanent damage to the device.
2. Semiconductor laser device is very sensitive to electrostatic discharge. High voltage spike current may change the characteristics of the device, or malfunction at any time during its service period. Therefore, proper measures for preventing electrostatic discharge are strongly recommended.
3. Do not look into the laser beam directly with the naked eyes. The laser beam may cause severe damage to human eyes.

