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APCD-780-07-C3



TECHNICAL DATA

IR diode laser module

APCD-780-07 is a multi purpose small size infrared 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

Absolute Maximum Ratings (T_C=25°C)

Item	Symbol	Value	Unit
Power Supply Voltage	V_{CC}	3.3	V
Output Power	P_O	<3	mW
Operating Temperature	T_C	0 … +40	°C
Storage Temperature	T_{stg}	0 … +60	°C

Specifications (T_C=25°C, P_O<3mW, V_{CC}=3V)

	Min.	Typ.	Max.	Unit
Optical				
Center Wavelength λ_C	-	785	-	nm
Output Power	-	-	3.0	mW
Divergence angle		2		mrad
Output Aparture		1.8		mm
Beam Size at 10M		20		mm
Electrical				
Current draw	-	-	35	mA
Supply voltage	2.5	-	3.3	V
General				
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



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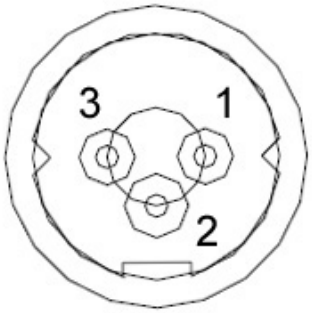
Electrical Connection :

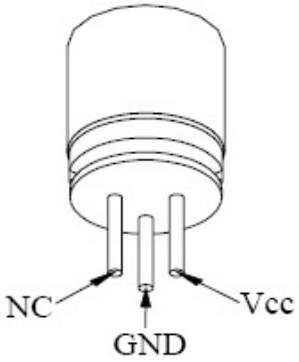
Heat sink stand (–)

Pin 1 : Vcc

Pin 2 : GND

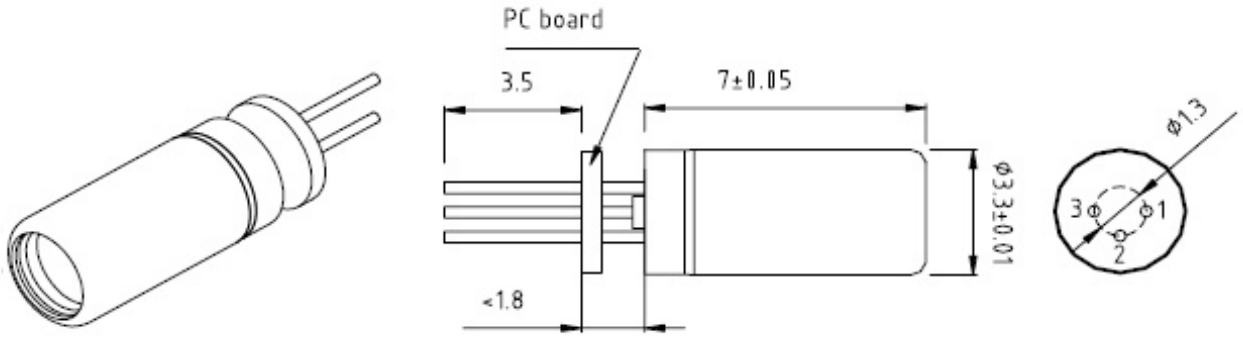
Pin 3 : NC (No external connection)





Outline Dimension :

Unit: mm



Cautions

1. Do not operate the device above the macimum 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 sercice periode. Therefor, proper measures for precenting 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.

