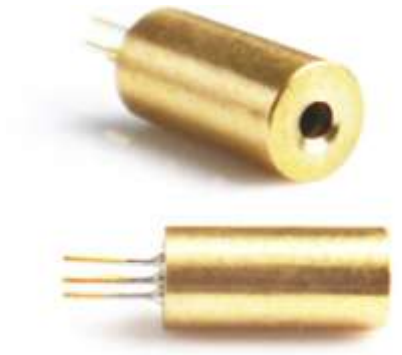
# Visible APC Laser Module APCD-635-D1-C3-XX-A&B

6-2D-LM63-032_Rev.02

## Φ4.0mm 635nm Laser Module



### Features

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

### Absolute maximum ratings

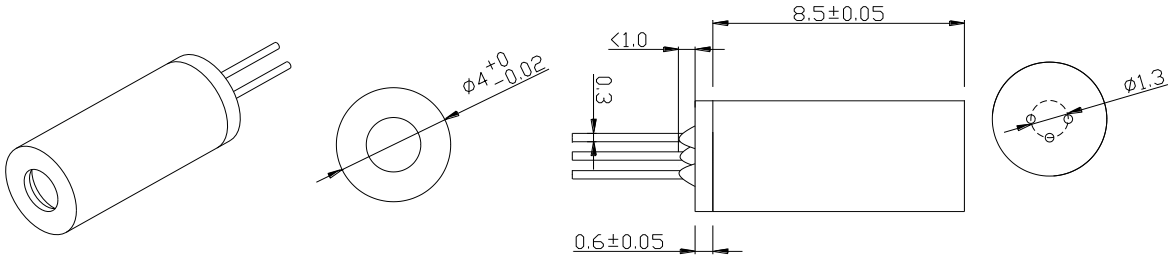
| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Power supply voltage | Vcc | 3.3 | V |
| Laser Module optical output power | Po | <5 | mW |
| Operation temperature | Topr | 0~40 | ℃ |
| Storage temperature | Tstg | -20~75 | ℃ |

### Electrical and optical characteristics ($T_c$=25 °C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|---|---|---|---|---|---|---|
| Wavelength | λ | 632 | 635 | 645 | nm | Po= 3mW |
| Operation current | Iop | - | - | 45 | mA | Po= 3mW ; Vcc=3V |
| Optical output power | Pout | 2 | | 3 | mW | |
| Operation voltage | Vop | 2.5 | - | 3.3 | Volt | |

* Sufficient heat dissipation is required for CW operation.

### Outline dimensions (Units: mm)




Aperture Size：1.3mm

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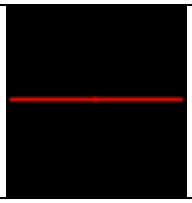
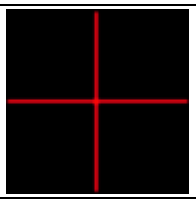
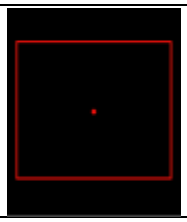
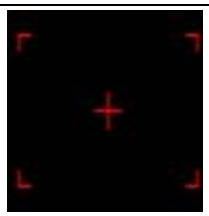
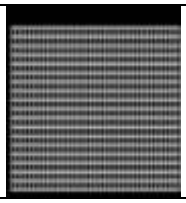
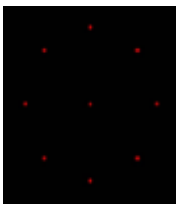
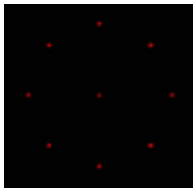
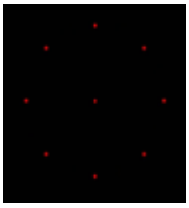
## Φ4.0mm 635nm Laser Module

### Pattern Type

| | | | | |
|---|---|---|---|---|
| Arima P/N | APCD-635-D1-C3-01 | | APCD-635-D1-C3-02 | |
| Pattern type | Line - 65° |  | Crosshair - 65° |  |
| Arima P/N | APCD-635-D1-C3-03 | | APCD-635-D1-C3-04 | |
| Pattern type | Line Square |  | Lines Square |  |
| Arima P/N | APCD-635-D1-C3-05 | | APCD-635-D1-C3-06 | |
| Pattern type | Gridline |  | Circle |  |
| Arima P/N | APCD-635-D1-C3-07 | | APCD-635-D1-C3-08 | |
| Pattern type | 1:8 Dot Circle - 1° |  | 1:8 Dot Circle - 2° |  |
| Arima P/N | APCD-635-D1-C3-09 | | APCD-635-D1-C3-10 | |
| Pattern type | 1:8 Dot Circle - 4° |  | 1:16 Dot Circle - 2° |  |
| Arima P/N | APCD-635-D1-C3-11 | | APCD-635-D1-C3-12 | |
| Pattern type | Focus net |  | Gridline (60x60) |  |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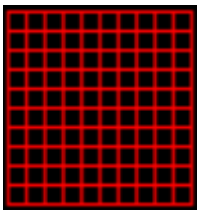
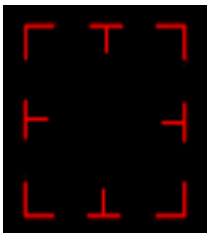
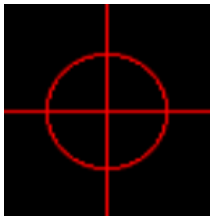
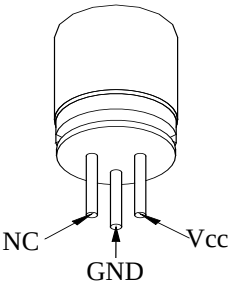
6-2D-LM63-032_Rev.02

## Φ4.0mm 635nm Laser Module

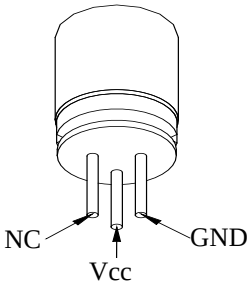
| Arima P/N | APCD-635-D1-C3-13 | | APCD-635-D1-C3-14 | |
|---|---|---|---|---|
| Pattern type | Gridline (10x10) |  | Lines Square ( FOV：35° ) |  |
| Arima P/N | APCD-635-D1-C3-15 | | | |
| Pattern type | Circle + Cross |  | | |

### PIN Assignment

**A type** : Heat sink stand (–)




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




- **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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