6-2D-LM63-042\_Rev.00

# Ф10mm 635nm 360° Line Laser Module

#### **Features**

APC (auto power control) IC inside full 360 ° laser line High brightness better line quality

## Absolute maximum ratings

Parameter	Symbol	Rating	Unit
Power supply voltage	Vcc	5.5	V
Laser Module optical output power	Po	<20	mW
Operation temperature	Topr	-5~40	°C
Storage temperature	Tstg	-40~75	°C

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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Wavelength	λ	635	638	643	nm	Po= 15mW
Operation current	lop	-	-	110	mA	Po= 15mW ; Vcc=3V
Optical output power (Dot)	Pout	13	15	20	mW	
Operation voltage	Vop		3	5	Volt	
Line thickness at 3M	<4mm					
Emitting angle	360°					

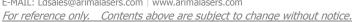
<sup>\*</sup> Sufficient heat dissipation is required for CW operation.

## **Outline dimensions (Units: mm)**

ARIMA LASERS CORP.

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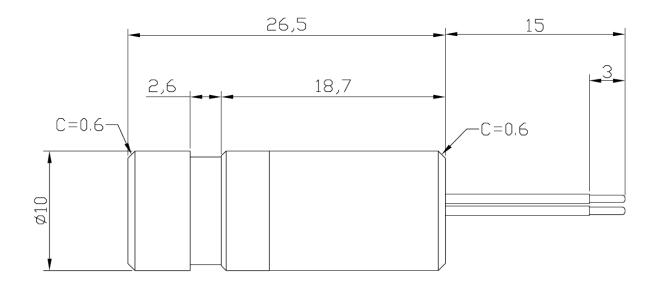
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Red wire : Vcc Black wire : GND

#### 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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