

Visible Cone Laser Module

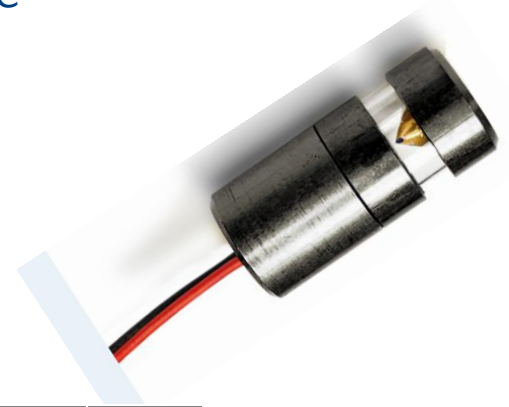
APFD-635-02-15-TA

6-2D-LM63-042_Rev.00

Φ10mm 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_c=25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Wavelength	λ	635	638	643	nm	Po= 15mW
Operation current	Iop	-	-	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°		

* Sufficient heat dissipation is required for CW operation.

Outline dimensions (Units: mm)

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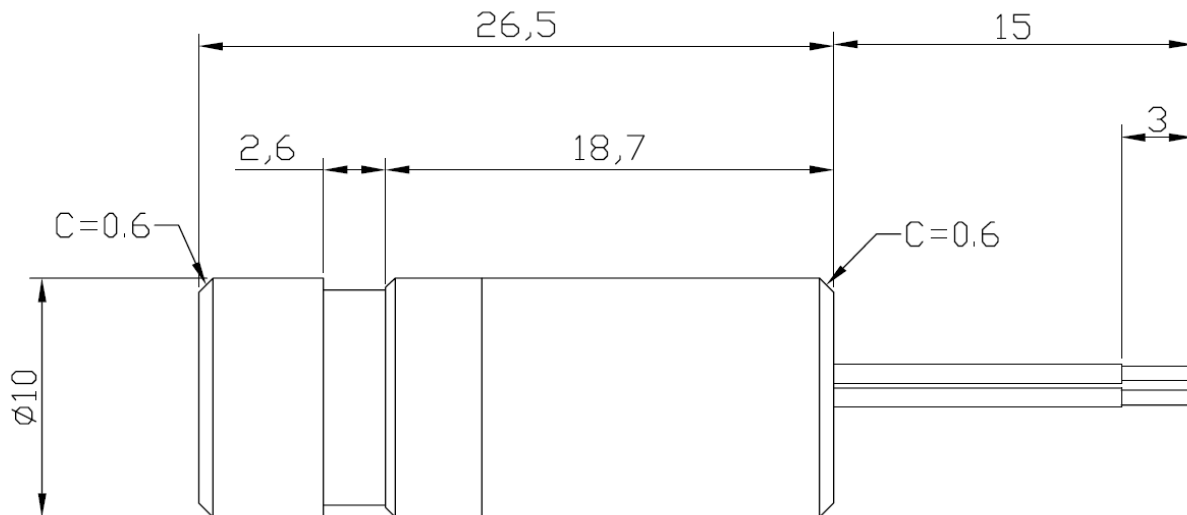
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Φ10mm 635nm 360° Line Laser Module



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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