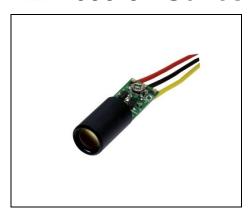


# **TTL Modulation Red Dot Laser Module**

### VLM-635-31-Series



#### **FEATURES:**

- TTL Modulation Red Dot Laser Module.
- CW to 10K HZ stable power output for demanding power and speed are of important.
- This module has integrated optic, laser diode, and APC with TTL control driver circuit.
- APC Driver Circuit enables the Laser output power safe and constant.
- Dimensions: Ø8 x 27 mm (Ø0.314" x 1.06")
- Wavelength: 630~645nm
- Output power: LPA Class IIIa less than 4mW.

LPT - Class II - less than 1mW.

- Beam Divergence (Half Angle): <0.4 mRad</li>
- 3~6 VDC operation.
- Connection type : Lead wire

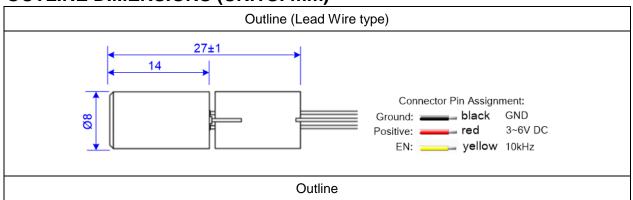
#### **APPLICATIONS:**

- Free space low frequency optical communication.
- Laser base measurement.
- 2D, 3D position, sampling.
- Medical application.
- Optical lighting.
- Counting.
- Scanning.
- I2C and Can Bus application.
- Medical science



# VLM-635-31-Series

### **OUTLINE DIMENSIONS (UNITS: mm)**



#### **SPECIFICATIONS**

SPECIFICATIONS  VI M 625 24				
SPECIFICATIONS	VLM-635-31-			
	· · ·	LPA		
Dimensions	Ø8 x 27 mm (Ø0.314" x 1.06")			
Weight	2.4g			
Operating voltage (Vop)	3~6 VDC			
Operating current (lop)	<40mA	<60mA		
Continuous wave output power (Po)	<1mW	<4mW		
Wavelength at peak emission (λp)	635nm			
Collimating Lens	Aspherical Glass lens			
Output Aperture	5mm			
Beam Shape	Dot			
Spot size at 10M	5±1mm			
Divergence(Half Angle)	<0.4mRad			
Operating temp. range	-20°C ~ +60°C			
Storage temp. range	-40°C ~ +85°C			
Housing Material	Aluminum			
Housing Color	Black			
Potential of Housing	Insulated			
Mod. Frequency Range	0-10kHz			
Operation Mode	TTL(High on)			
EN input current	1 to 20mA			
Wire Type	1007-26AWG			
Cable length	115±15mm			
Mean time to failure(MTTF) 25℃	10000hrs			
	SPECIFICATIONS  Dimensions  Weight  Operating voltage (Vop)  Operating current (Iop)  Continuous wave output power (Po)  Wavelength at peak emission (λp)  Collimating Lens  Output Aperture  Beam Shape  Spot size at 10M  Divergence(Half Angle)  Operating temp. range  Storage temp. range  Housing Material  Housing Color  Potential of Housing  Mod. Frequency Range  Operation Mode  EN input current  Wire Type  Cable length	VLM-6 LPTDimensionsØ8 x 27 mm (Ø WeightOperating voltage (Vop)3-6Operating current (Iop)<40mAContinuous wave output power (Po)<1mWWavelength at peak emission (λp)635Collimating LensAsphericalOutput Aperture5mBeam ShapeDSpot size at 10M5±1Divergence(Half Angle)<0.4rOperating temp. range-20°C ~Storage temp. range-40°C ~Housing MaterialAlumHousing ColorBlaPotential of HousingInsuMod. Frequency Range0-10Operation ModeTTL(HEN input current1 to 2Wire Type1007-2Cable length115±²		



### **VLM-635-31-Series**

#### **ORDER CODE**

Order Code	Wavelength	Output Power	Connection Type
VLM-635-31 LPA	635 nm	<4mW	Lead Wire
VLM-635-31 LPT	635 nm	<1mW	Lead Wire

### **SAFETY LABEL**



