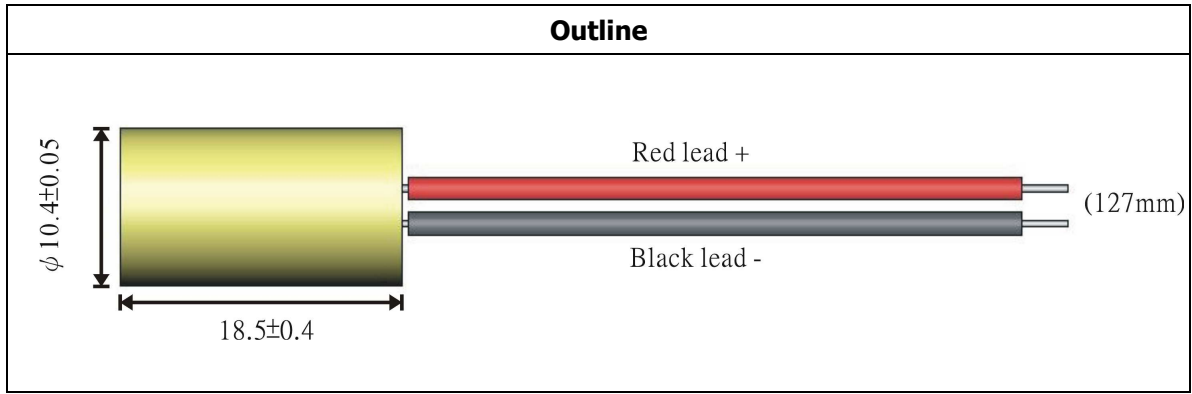


# MODEL TYPE

## VLM-635-01 LPA / VLM-635-01 LPT Industrial use Laser

## VLM-650-01 LPA / VLM-650-01 LPT

### OUTLINE DIMENSIONS (UNITS: mm)



1. Basic model, compact size with PCB inside ,ideal for industrial laser indication
2. This model integrated optic, laser diode, and the APC driver circuit into a patented solid brass structure for the best shock resistance and heat sink consideration.
3. Options: Connection type: Spring / Lead wire (Spring type: by order).  
Output power: Class II-less than 1mW / Class IIIa – less than 5mW.
4. E.S.D. protection 15KV.

SPECIFICATIONS		635-01	650-01
1	Operating voltage (Vop)	3~5V	
2	Operating current (Iop)	< 50mA	< 35mA
3	Cw output power (Po)	$\leq 3$ mW	
4	Wavelength at peak emission ( $\lambda_p$ )	630~645nm	645~665nm
5	Collimating lens	Aspherical plastic ( $\phi 7$ )	
6	Spot size at 5M	5 $\pm$ 1 mm	
7	Divergence	1.0 mrad	
8	Operating temp. range	+10°C ~+40°C	
9	Storage temp. range	-20°C ~+65°C	
10	Housing	Brass	
11	Mean time to failure (MTTF) 25°C	5000hrs	10000hrs