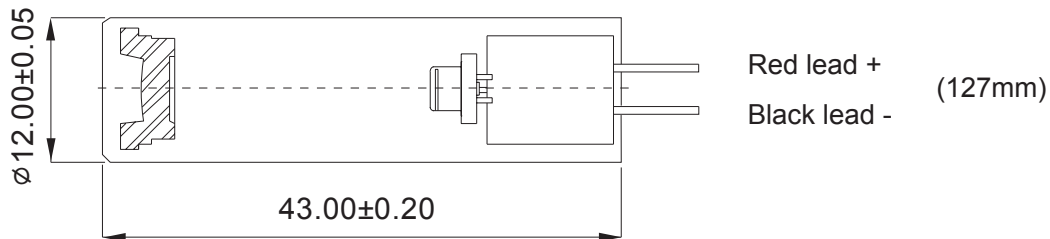


## MODEL TYPE

- VLM-635-14 LPA / VLM-635-14 LPT
- VLM-650-14 LPA / VLM-650-14 LPT

### OUTLINE DIMENSIONS (UNITS: mm)



1. Small beam size laser module for laser leveling, precision, and professional applications, the PCB protected inside of the brass housing.
2. 0.6 mrad divergence angle.
3. Options: Output power: Class II - less than 1mW / Class IIIa - less than 5mW.
4. E.S.D. protection 15KV.

SPECIFICATIONS	635-14	650-14
Operating voltage (Vop) <input type="checkbox"/>	3 ~ 5V	
Operating current (Iop) <input type="checkbox"/>	40±15mA	
Cw output power (Po)	≤ 2.5mW	
Wavelength at peak emission ( $\lambda_p$ )	630 ~ 645nm	645 ~ 665nm
Collimating lens <input type="checkbox"/>	Aspherical plastic ( $\varnothing 10$ )	
Housing <input type="checkbox"/>	Brass	
Spot size at 20m <input type="checkbox"/>	10±2mm	
Divergence <input type="checkbox"/>	0.6 mrad	
Mean time to failure (MTTF) 2.5mW 25°C <input type="checkbox"/>	5000 hrs	10000 hrs
Operating temp. range <input type="checkbox"/>	+10°C ~ +40°C	
Storage temp. range <input type="checkbox"/>	-20°C ~ +65°C	