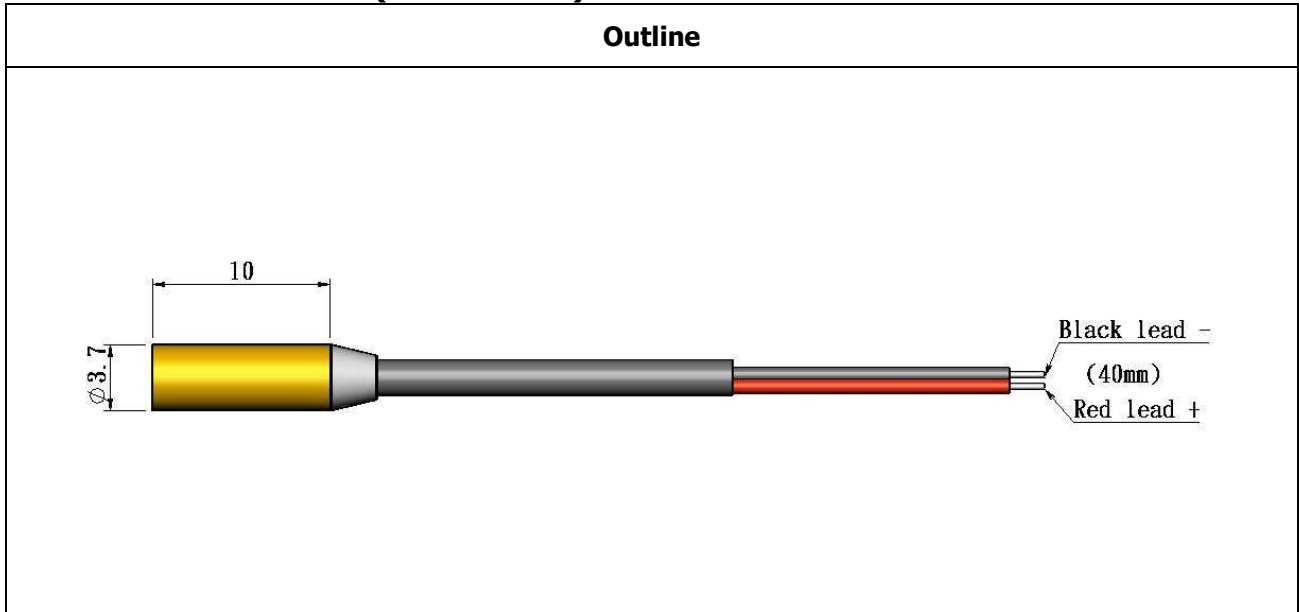


# MODEL TYPE

**VLM-650-35 LPA / VLM-650-35 LPT**

**Driver inside mini Laser**

**OUTLINE DIMENSIONS (UNITS: mm)**



**Applications:**

1. With APC driver circuit inside laser diode, the smallest laser.
2. Options : Connected type : Spring / Lead wire
3. Output power : Class II- less than 1mW / Class IIIa-less than 2.5mW
4. This mini laser is sensitive to temperature change. Suggest to use it in room temperature. Spot size to be changed when not used in the specified temperature range.

SPECIFICATIONS		650-35 LPA	650-35 LPT
1	Operating Voltage (Vop)	3 V ~ 5V	
2	Operating Current (Iop)	< 22 mA@3V	< 15 mA@3V
3	Cw Output Power (Po)	≤2.5 mW	Less than 1.0 mW
4	Wavelength at peak emission (λp)	645 ~ 660nm	
5	Collimating Lens	Aspherical Plastic (ø3)	
6	Spot size at 3M	6 ±1mm	
7	Divergence	2.0 mrad	
8	Operating temp. range	+20°C ~ +30°C (Room Temperature)	
9	Storage temp. range	-20°C ~ +65°C	
10	Housing	Brass	
11	Mean time to failure (MTTF) 2.5mW 25°	5,000 Hours	5,000 Hours