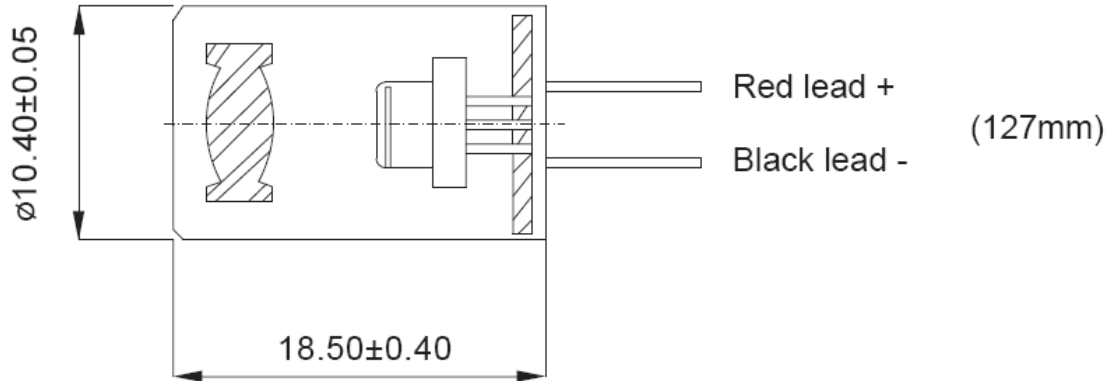


# Quarton Laser Module

## Part #VLM-650001 (LPA/LPT)

### Mechanical Dimensions (UNITS: mm)



<b>SPECIFICATIONS:</b>	<b>VLM-650001 LPA</b>	<b>VLM-650001 LPT</b>
APC Driver Circuit	Yes	Yes
Collimating Lens	Aspherical Plastic	Aspherical Plastic
Cw Output Power (Po)	<b><math>\leq 3</math> mW</b>	<b>Less than 1.0 mW</b>
Divergence	1.6 mrad	1.6 mrad
ESD Protection	15 KV	15 KV
Housing	Brass	Brass
Laser Class / Applicable Countries	<b>Class 3a / USA</b>	<b>Class 2 / Europe, Japan, USA</b>
Mean time to failure (MTTF) 3mW 25°	10,000 Hours	10,000 Hours
Operating Current (Iop)	$40 \pm 15$ mA	$40 \pm 15$ mA
Operating Voltage (Vop)	$3 \sim 5$ V	$3 \sim 5$ V
Power Connection	Wire leads (2)	Wire leads (2)
Spot size at 5m.	6mm ( $\pm 2$ mm)	6mm ( $\pm 2$ mm)
Temperature Range - Operating	$+10^{\circ}\text{C}$ thru $+40^{\circ}\text{C}$	$+10^{\circ}\text{C}$ thru $+40^{\circ}\text{C}$
Temperature Range - Storage	$-20^{\circ}\text{C}$ thru $+65^{\circ}\text{C}$	$-20^{\circ}\text{C}$ thru $+65^{\circ}\text{C}$
Wavelength at peak emission ( $\lambda_p$ )	$645 \sim 665\text{nm}$	$645 \sim 665\text{nm}$
RoHS Compliant	Yes	Yes

#### Application Notes:

- For general laser sighting applications.
- Spring Leads use part #VLM-650001 SPA for Class 3a. **(USA)**
- Spring Leads use part #VLM-650001 SPT for Class 2. **(USA, Europe, Japan)**