

VCSEL Flash LiDAR Module AX02 Pro Series



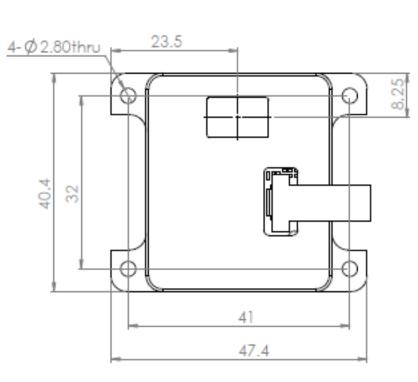
Features

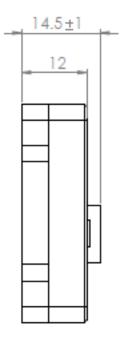
- Peak power >700W
- Short pulse < 5ns
- FOV 125° x 25°
- Auto grade diffuser
- Driver included

Applications

- Autonomous LiDAR
- IR illumination
- Industrial 3D sensing
- Laser ranging

Product Dimensions (mm)





Remark: The structure drawing is for reference only. Please feel free to contact us for any special requirements.

All rights reserved. Product specifications and descriptions are subject to change. Product delivered with limited warranty. Please contact our sales representatives for complete details. Address: 56 Zhangba 6th Road, High-Tech Zone, 710077 Xi'an, Shaanxi, P. R. China Focuslight Technologies Inc. Tel: +86 29 8188 9945 | Email: sales@focuslight.com | Website: https://www.focuslight.com



Product Specifications (Prototype)

Product Code

| Part No. ¹ | FL-AX02Pro-700-940-125x25 |
|-----------------------|---------------------------|
| Test Condition | 90V, 100ns, 100kHz, 25°C |

| Optical Data | Unit | Value |
|--|---------|---------|
| Centroid Wavelength λ | nm | 940±5 |
| Output Peak Power ² | W | > 700 |
| Pulse width(V ^{op1} =80V) | ns | < 5 |
| FOV @ FWHM (Typical, Horizontal x Vertical) | ٥ | 125x25 |
| Spectral Width FWHM | nm | < 2 |
| Wavelength Temp. Coefficient | nm / °C | 0.07 |
| Beam uniformity | % | 85 |
| Electrical Data | | |
| Operating Voltage (HVDD) V _{op1} | V | 20~90 |
| Operating Voltage (Low Voltage) V_{op2} | V | 7~12 |
| Trigger Signal Rep Rate | kHz | 10~100 |
| Trigger Signal Pulse Width | ns | < 100 |
| | | |
| Other Data | | |
| Operation Temperature | °C | -10~50 |
| Storage Temperature | °C | -40~105 |

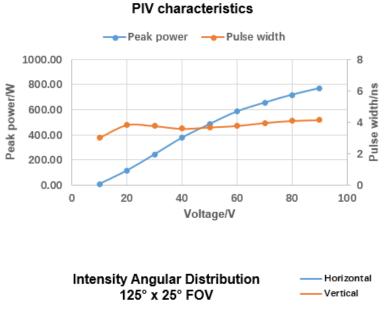
¹Part No. = Brand Code - Series - Power - Centroid Wavelength - FOV.

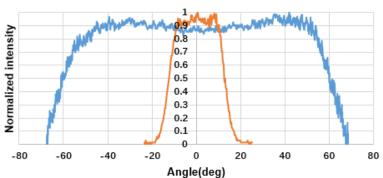
² A non-condensing environment is required for storage and operation below ambient dew point.

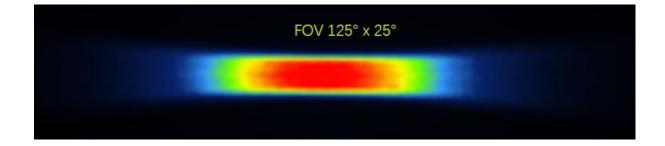




Product Test Results (Prototype)







Rev 01 | Updated September 8, 2021