

VCSEL Flash LiDAR Module AX02 Pro Series



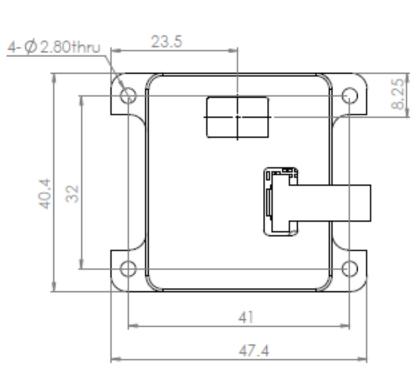
Features

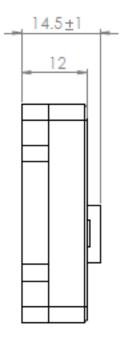
- Peak power >700W
- Short pulse < 5ns
- FOV 125° x 25°
- Auto grade diffuser
- Driver included

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

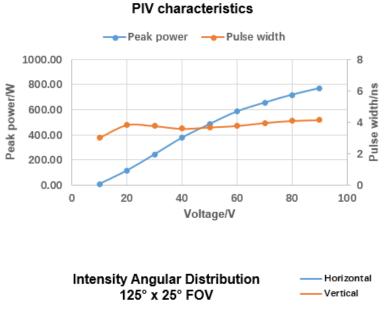
¹Part No. = Brand Code - Series - Power - Centroid Wavelength - FOV.

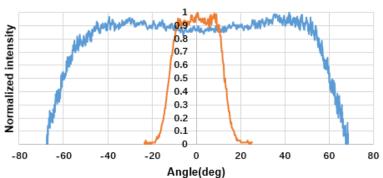
² A non-condensing environment is required for storage and operation below ambient dew point.

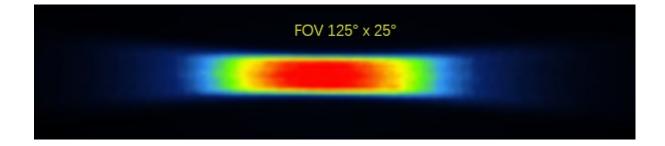




Product Test Results (Prototype)







Rev 01 | Updated September 8, 2021