

# VCSEL Flash LiDAR Module

## AX01 Series



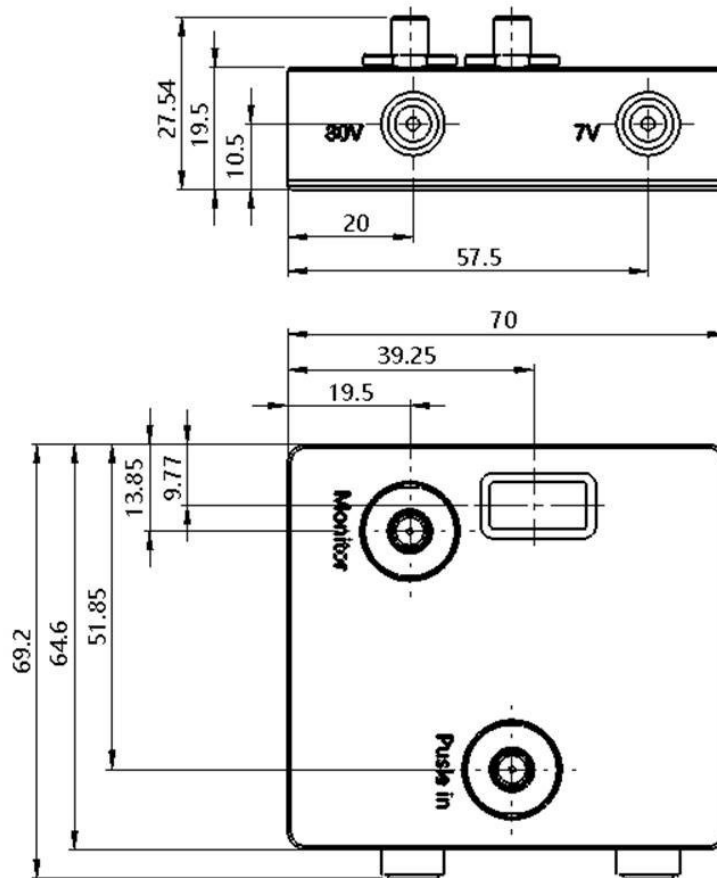
### Features

- Peak power >300W
- Short pulse <5ns
- FOV 125° x 20°
- 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.

## Product Specifications (Prototype)

<b>Product Code</b>	<b>(Typical Customization)</b>
Part No. <sup>1</sup>	FL-AX01-300-940-125x20
Test Condition	80V, 100ns, 100kHz, 25°C

Optical Data	Unit	Value
Centroid Wavelength $\lambda$	nm	940±5
Output Peak Power <sup>2</sup>	W	> 300
Pulse width ( $V_{op1}=80V$ )	ns	< 5
FOV @ FWHM (Typical, Horizontal x Vertical)	°	125x20
Spectral Width FWHM	nm	< 2
Wavelength Temp. Coefficient	nm / °C	0.07
Beam uniformity	%	85

Electrical Data		
Operating Voltage (HVDD) $V_{op1}$	V	80
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

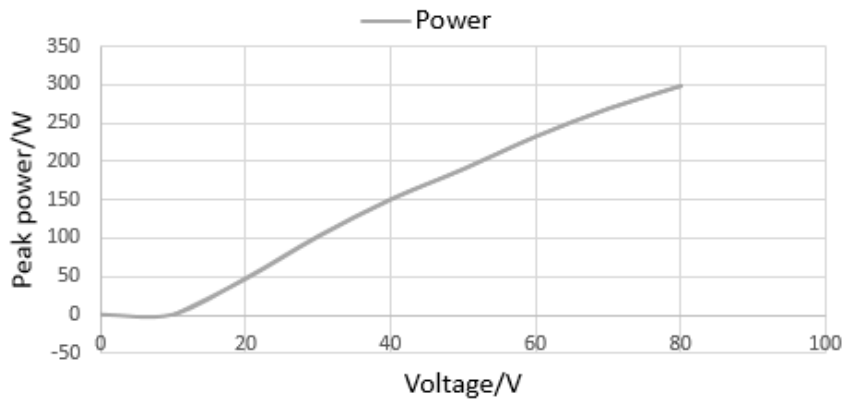
<sup>1</sup>Part No. = Brand Code - Series - Power - Centroid Wavelength - FOV.

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



**Product Test Results (Prototype)**

**PVI characteristics**



**Intensity Angular Distribution 125°x20°FOV**

