905nm EEL LiDAR Line Laser Transmitter Module

BeamRazor ™ Series - LE02 Pro Module

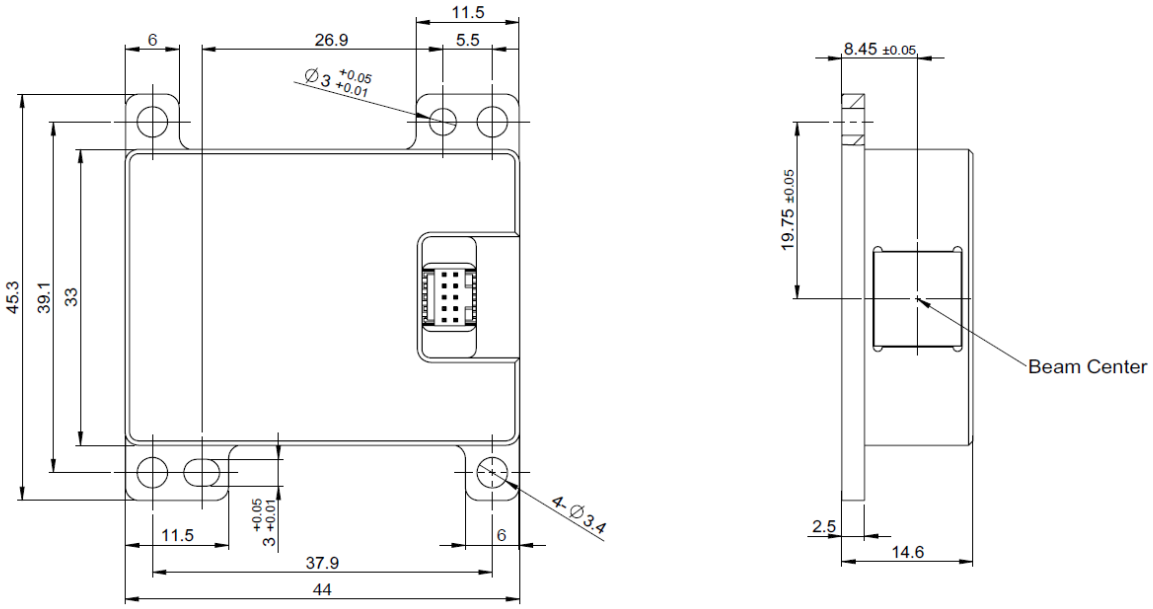
Features

- Peak Power >700W
- Wavelength 905nm
- Small divergence (<0.15° FA)
- Short pulse (~5ns)

Applications

- Automotive LiDAR
- 3D Sensing
- Industrial Sensing
- Machine Vision

Product Dimensions (mm)



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

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Product Specifications (Prototype)

Product Code		LET300033	LET300035
Part No. [1]		FL-LE02 Pro-600-905-0.15x11	FL-LE02 Pro-600-905-0.15x25
Test Condition (Typical)		Input Pulse=10ns, Input Trigger=45kHz, HVDD=90V, Duty Cycle=0.045%, 20°C	
Optical Parameters	**Unit**	**Value**	**Value**
Centroid Wavelength λ	nm	905±10	905±10
Spectral Width FWHM	nm	‹7	‹7
Wavelength Temp. Coefficient	nm / °C	~0.27	~0.27
Module Output Peak Power [2]	W	›700	›700
Laser Pulse Width @ FWHM	ns	~5	~5
Laser Pulse Rise Time	ns	~2	~2
Operating Duty Cycle	%	‹0.1	‹0.1
Laser Spot Size at Outlet (FA x SA)@FW	mm^2	~8x6	~8x7.4
FOV — Fast Axis @ FW $1/e^2$ (FA-Horizontal)	°	‹ 0.15	‹ 0.15
FOV — Slow Axis @ FW $1/e^2$ (SA-Vertical)	°	~11.5	~25.6
Electrical Parameter			
Logic Voltage DC	V	7-12	7-12
Operating High Voltage DC (HVDD)	V	20-90	20-90
Input Operating Power (Recommended)	W	‹7	‹7
Repetition Pulse Frequency (RPF)	kHz	10-75	10-75
Input Trigger Voltage Amplitude	V	5	5
Input Trigger Pulse Width	ns	10-100	10-100
Input Trigger Pulse Rise Time (Recommended)	ns	‹10	‹10
Input Trigger Pulse Impedance	load Ω	50	50
Others			
Operation Temperature	°C	-10-50	-10-50
Storage Temperature	°C	-40-105	-40-105
Product Dimensions	mm	44x45x15	44x45x15

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

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

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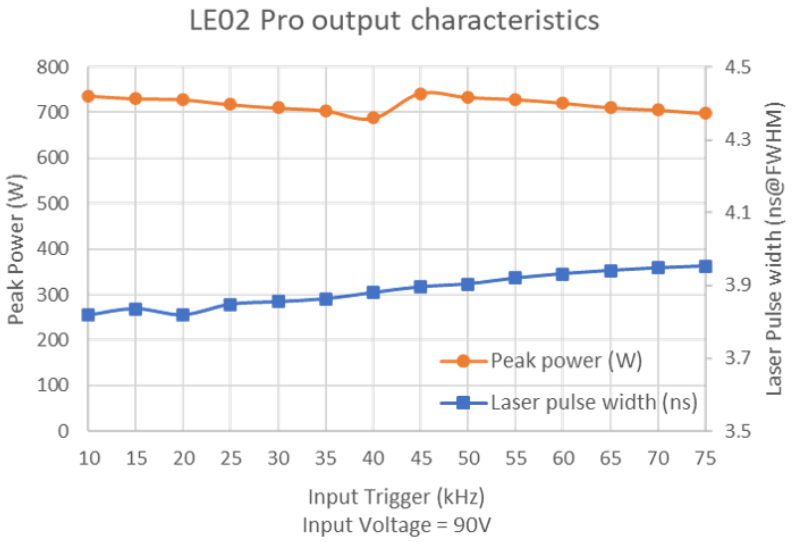
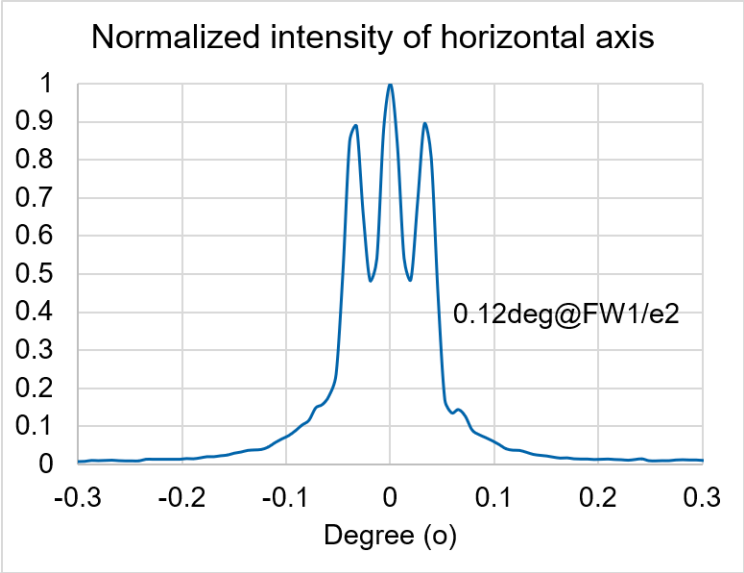
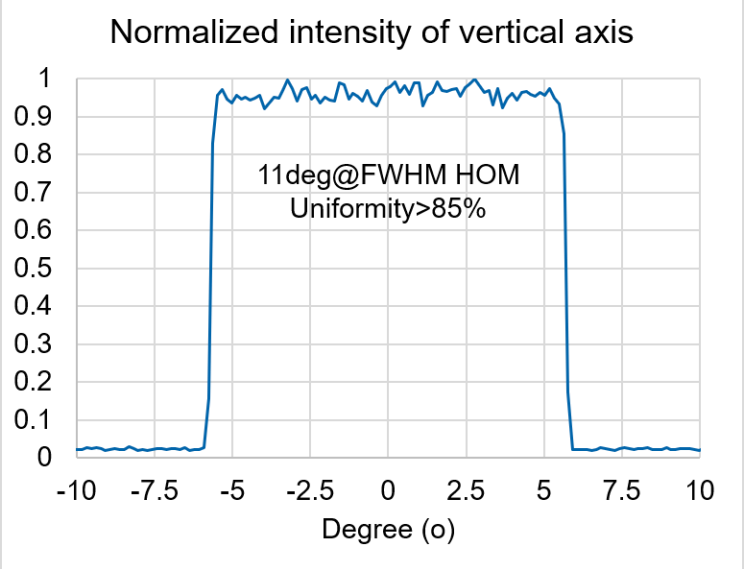
Product Test Results (Prototype for LET300033)







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