



MPL-E series

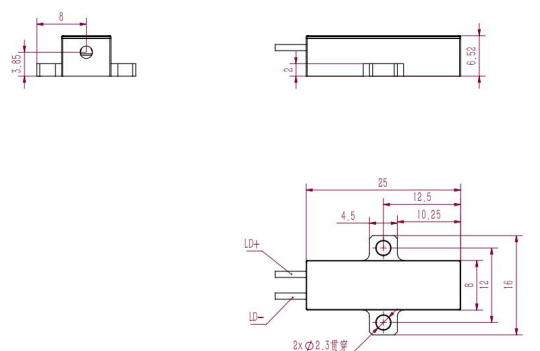
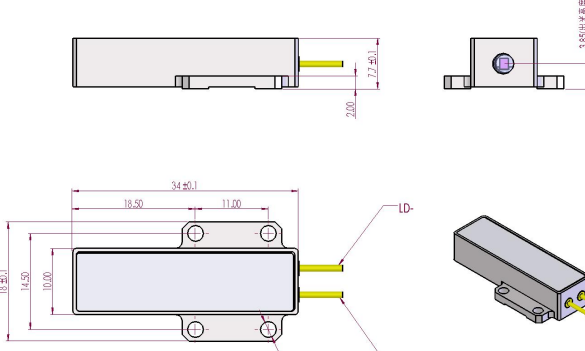
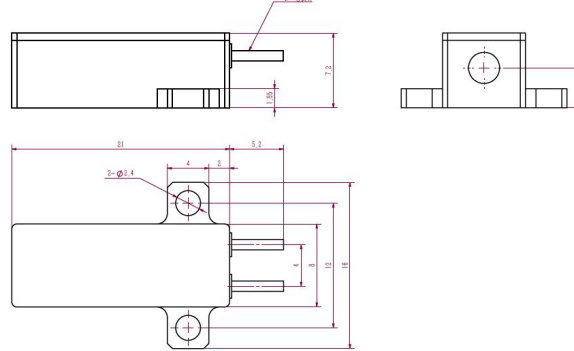
1535nm LASER

The 1535nm laser is a core component for eye-safe rangefinders. As an independently developed and localized device, it offers high reliability and cost-effectiveness.



SPECIFICATIONS

Part number	MPL-E100-1535	MPL-E200-1535	MPL-E300-1535	MPL-E400-1535	MPL-E40-1535
Wavelength (nm)	1535				1535±2
Operating mode	Passively				
Average power (mW) ¹	0.1-1	0.2-2	0.3-3	0.4-4	40
Single pulse energy (μJ) ²	100	200	300	400	40
Pulse duration (ns)	3-5			3-6	3-5
Peak power (kW)	25	50	70	80	10
Rep. rate (Hz) ³	1-10				1000
Energy stability (rms, 4 hours ±3°C)	<5%				
Beam diameter at the aperture (mm)	≤12				≤15
Beam divergence, full angle (mrad)	3.85				
Operating temperature (°C)	-40-65				-40-55
Operating voltage (V)	<2				
Operating current (A)	8±1	≤12		15	≤4
Expected lifetime	>10 ⁷ times irradiate		>2×10 ⁷ times irradiate		>10 ⁷ times irradiate

LASER (MPL-E100/ 200/ 300-1535)	LASER (MPL-E400-1535)	LASER (MPL-E40-1535)
 25(L)×16(W) ×6.52(H) mm³, 10g	 34(L)×18(W) ×7.7(H) mm³, 8g	 21(L)×16(W) ×7.2(H) mm³, 8g

1 Average power (mW)= Single pulse energy (μJ)* Rep. rate(kHz)

2 Any energy level can be selected within this range.

3 External triggered.