



MPL-T series (1101-1600nm)

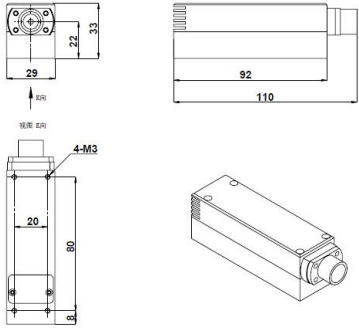
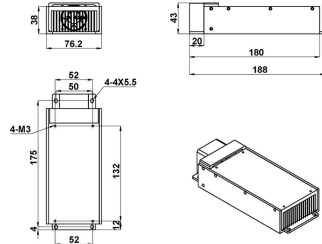
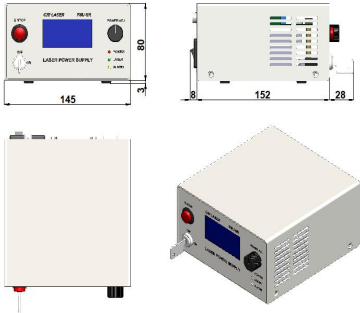
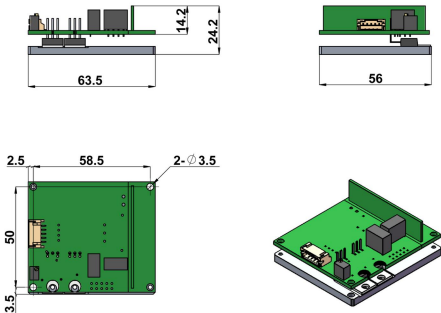
LD PUMPED ALL-SOLID-STATE PASSIVELY LASER

All solid state passively laser has the features of high peak power and short pulse duration, which is widely used in scientific research, laser micromaching, laser radar ranging, environment monitoring, laser ultrasonic monitoring and LIBS (Laser Induced Breakdown Spectroscopy) etc.



SPECIFICATIONS

Wavelength (nm)	1535±2				
Operating mode	Passively				
Average power (mW) ¹	0.1-1	0.2-2	0.3-3	0.4-4mW	40mW
Single pulse energy (μJ) ²	100	200	300	400	40
Pulse duration (ns)	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%				
Transverse mode	TEM ₀₀				
Beam divergence, full angle (mrad)	≤12				≤15
Warm-up time (minutes)	<5				
Beam height from base plate (mm)	22				
Operating temperature (°C)	10-35				
Power supply (100-240VAC)	PSU-SR				
Power supply (5VDC)	PSU-T-OEM-II (5V/5A)				
Expected lifetime (hours)	>10 ⁷ times irradiate		>2×10 ⁷ times irradiate		>10 ⁷ times irradiate

LASER HEAD ⁴	HEATSINK (optional TC-04-FS)
 110(L)×29(W) ×33(H) mm³, 0.34kg	 188(L)×76.2(W)×43(H) mm³, 0.65kg
POWER SUPPLY (PSU-SR) ⁵	DRIVER (PSU-T-OEM-II) ⁵
 188(L) ×145(W) ×83(H) mm³, 1.2kg	 63.5(L) ×56(W) ×24.2(H) mm³, 0.07kg

- 1 Average power (mW)= Single pulse energy (μJ)* Rep. rate(kHz)
- 2 Any energy level can be selected within this range.
- 3 External triggered.
- 4 The laser head needs to be used on a heat sink with good heat dissipation.
- 5 Fixed output energy.