

MIL-W-1834/1-1300mW

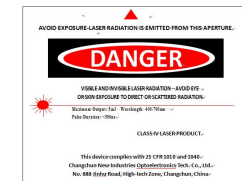
LD PUMPED ALL-SOLID-STATE INFRARED LASER AT 1834nm

All solid state 1834nm infrared laser is made features of high power ,good beam quality and easy operating, which is widely used in material processing especially for plastics, and it use for pumping of laser sources for the mid infrared region, medical procedures such as precise tissue ablation, ophthalmic surgery or dentistry, suppresses the bleeding during operations, etc.



SPECIFICATIONS

Wavelength (nm)	1834±2
Operating mode	CW
Output power (mW) ¹	1-1300
Power stability (rms, 4 hours±3°C)	<5%, <3%
Transverse mode	Near TEM ₀₀
M ²	<3.0
Beam divergence, full angle (mrad)	<2.0
Beam diameter at the aperture (1/e ² ,mm)	<2.0
Beam height from base plate (mm)	98
Warm-up time (minutes)	<10
Cooled method	Air Cooled
Operating temperature (°C)	10-35
Power supply (100-240VAC)	PSU-W-LED or PUS-W-FDA
TTL/Analog modulation	TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional
Expected lifetime (hours)	>10000



LASER HEAD	POWER SUPPLY (PSU-W-LED)	POWER SUPPLY (PSU-W-FDA)
Technical drawings of the Laser Head showing top, front, and isometric views with dimensions: - Top view: 316 (width) x 346 (depth) - Front view: 70 (width) x 98 (height) - Isometric view: 300 (width) x 75 (height) - Fixed 3xM6 (mounting holes) 346 (L) × 140 (W) × 123 (H) mm³, 8.5 kg	Technical drawings of the Power Supply (PSU-W-LED) showing front, top, and isometric views with dimensions: - Front view: 168 (width) x 123 (height) - Top view: 168 (width) x 140 (depth) - Isometric view: 336 (L) × 168 (W) × 133 (H) mm³, 4.6 kg 336 (L) × 168 (W) × 133 (H) mm³, 4.6 kg	Technical drawings of the Power Supply (PSU-W-FDA) showing front, top, and isometric views with dimensions: - Front view: 168 (width) x 123 (height) - Top view: 287 (width) x 25 (depth) - Isometric view: 307 (L) × 168 (W) × 123 (H) mm³, 4.5 kg 307 (L) × 168 (W) × 123 (H) mm³, 4.5 kg

1 Any power level can be selected in this range.

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