

长春新产业光电技术有限公司

Changchun New Industries Optoelectronics Tech. Co., Ltd.

DATA SHEET

MIL-W-1342/4~6W



LD PUMPED ALL-SOLID-STATE INFRARED LASER AT 1342nm

All solid state infrared laser at 1342nm is made features of ultra compact, long lifetime and easy operating, which is used in scientific experiment, optical instrument, optical sensor, measurement, communication, spectrum analysis, etc.









SPECIFICATIONS

Wavelength (nm) 1342±1 Operating mode CW Output power (W) >4, 4.5, 5,, 6 Power stability (rms, over 4 hours) Transverse mode Near TEM ₀₀ M² factor Beam divergence, full angle (mrad) Beam diameter at the aperture (1/e²,mm) -5.0 Warm-up time (minutes) Polarization ratio Polarization ratio Beam height from base plate (mm) 93.5 Operating temperature (°C) Power supply (90-264VAC) PSU-W-LED PSU-W-FDA TTL / Analog modulation TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional Expected lifetime (hours) 10000		7	
Output power (W) >4, 4.5, 5,, 6 Power stability (rms, over 4 hours) <1%, <3%, <5% Transverse mode Near TEM ₀₀ M² factor 3~6 Beam divergence, full angle (mrad) <2.0 Beam diameter at the aperture (1/e²,mm) ~5.0 Warm-up time (minutes) <10 Polarization ratio >100:1 Beam height from base plate (mm) 93.5 Operating temperature (°C) 10~35 Power supply (90-264VAC) PSU-W-LED PSU-W-FDA TTL / Analog modulation TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional	Wavelength (nm)	1342±1	
Power stability (rms, over 4 hours) <1%, <3%, <5% Transverse mode Near TEM ₀₀ M² factor 3~6 Beam divergence, full angle (mrad) <2.0 Beam diameter at the aperture (1/e²,mm) ~5.0 Warm-up time (minutes) <10 Polarization ratio >100:1 Beam height from base plate (mm) 93.5 Operating temperature (°C) 10~35 Power supply (90-264VAC) PSU-W-LED PSU-W-FDA TTL / Analog modulation TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional	Operating mode	CW	
Transverse mode M² factor 3~6 Beam divergence, full angle (mrad) 8 eam diameter at the aperture (1/e²,mm) Varm-up time (minutes) Polarization ratio Polarization ratio Seam height from base plate (mm) Operating temperature (°C) Power supply (90-264VAC) PSU-W-LED PSU-W-FDA TTL / Analog modulation TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional	Output power (W)	>4, 4.5, 5,, 6	
M² factor 3~6 Beam divergence, full angle (mrad) <2.0 Beam diameter at the aperture (1/e²,mm) ~5.0 Warm-up time (minutes) <10 Polarization ratio >100:1 Beam height from base plate (mm) 93.5 Operating temperature (°C) 10~35 Power supply (90-264VAC) PSU-W-LED PSU-W-FDA TTL / Analog modulation TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional	Power stability (rms, over 4 hours)	<1%, <3%, <5%	
Beam divergence, full angle (mrad) <2.0 Beam diameter at the aperture (1/e²,mm) ~5.0 Warm-up time (minutes) <10 Polarization ratio >100:1 Beam height from base plate (mm) 93.5 Operating temperature (°C) 10~35 Power supply (90-264VAC) PSU-W-LED PSU-W-FDA TTL / Analog modulation TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional	Transverse mode	Near TEM ₀₀	
Beam diameter at the aperture (1/e²,mm) ~5.0 Warm-up time (minutes) <10 Polarization ratio >100:1 Beam height from base plate (mm) 93.5 Operating temperature (°C) 10~35 Power supply (90-264VAC) PSU-W-LED PSU-W-FDA TTL / Analog modulation TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional	M ² factor	3~6	
Warm-up time (minutes) <10 Polarization ratio >100:1 Beam height from base plate (mm) 93.5 Operating temperature (°C) 10~35 Power supply (90-264VAC) PSU-W-LED PSU-W-FDA TTL / Analog modulation TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional	Beam divergence, full angle (mrad)	<2.0	
Polarization ratio >100:1 Beam height from base plate (mm) 93.5 Operating temperature (°C) 10~35 Power supply (90-264VAC) PSU-W-LED PSU-W-FDA TTL / Analog modulation TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional	Beam diameter at the aperture (1/e ² ,mm)	~5.0	
Beam height from base plate (mm) 93.5 Operating temperature (°C) 10~35 Power supply (90-264VAC) PSU-W-LED PSU-W-FDA TTL / Analog modulation TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional	Warm-up time (minutes)	<10	
Operating temperature (°C) 10~35 Power supply (90-264VAC) PSU-W-LED PSU-W-FDA TTL / Analog modulation TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional	Polarization ratio	>100:1	
Power supply (90-264VAC) PSU-W-LED PSU-W-FDA TTL / Analog modulation TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional	Beam height from base plate (mm)	93.5	
TTL / Analog modulation TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional	Operating temperature (°C)	10~35	
	Power supply (90-264VAC)	PSU-W-LED	PSU-W-FDA
Expected lifetime (hours) 10000	TTL / Analog modulation	TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional	
	Expected lifetime (hours)	10000	
Warranty period 1 year	Warranty period	1 year	





