

MIL-III-1047/1~500mW

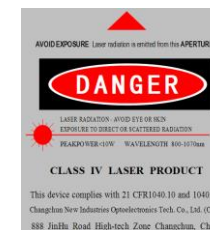


LD PUMPED ALL-SOLID-STATE INFRARED LASER AT 1047 nm

All solid state infrared laser at 1047nm is made features of ultra compact, long lifetime, low cost and easy operating, which is used in scientific experiment, measurement, optical instrument, optical sensor, communication, spectrum analysis, etc.

SPECIFICATIONS

Wavelength (nm)	1047±1	
Output power (mW)	>1, 5, 10, 20, ... , 200	>200, ... , 500
Transverse mode	TEM ₀₀	
Operating mode	CW	
Power stability (rms, over 4 hours)	<2%, <3%, <5%	<3%, <5%
Warm-up time (minutes)	<10	
M ² factor	<1.5	
Beam divergence, full angle (mrad)	<1.5	
Beam diameter at 1/e ² (mm)	~1.5	
Beam height from base plate (mm)	24.8	
Polarization ratio	>100:1 Horizontal±5 degree (Vertical Optional)	
Pointing stability after warm-up (mrad)	<0.05	
Operating temperature (°C)	10~35	
Power supply (90-264VAC or 5VDC)	PSU-III-LED/PSU-III-FDA/PSU-III-OEM-97	
Modulation option	TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation option	
Expected lifetime (hours)	10000	
Warranty	1 year	



MIL-III-1047	PSU-III-LED	PSU-III-FDA	PSU-III-OEM-97
140.5 (L) × 73 (W) × 46.2 (H) mm ³ , 0.6kg	188 (L) × 155(W) × 92 (H) mm ³ , 1.5kg	171 (L) × 130(W) × 62.2 (H) mm ³ , 1.2kg	94(L) × 75(W) × 49(H) mm ³ , 0.23kg