



OEM-U-1047/1-500mW



DPSS OEM LASER AT 1047 nm

All solid state single longitudinal mode laser at 1047 nm is made features of ultra compact, long lifetime, low cost and easy operating, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.

SPECIFICATIONS

Central wavelength (nm)	1047	
Operating mode	CW	
Output power (mW)	>1, 5, 10, 20, ... , 200	>200, ... , 500
Power stability (rms, over 4 hours)	<2%, <3%, <5%	<3%, <5%
Transverse mode	TEM <sub>00</sub>	
M <sup>2</sup> factor	<1.2	
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	0.70±0.05	
Beam divergence (mrad)	<1.5	
Polarization Ratio	>100:1, Horizontal±5 degree	
Warm-up time (minutes)	<10	
Pointing stability after warm-up (mrad)	<0.05	
Beam height from base plate (mm)	27.4	
Laser head consumption(W)	15 (typical) , <25 (40℃)	
Max. Laser Head Base plate Temp ( °C)	50	
Operating Temperature ( °C)	10-40	
Driver (12VDC)	PSU-SR-DC12V	
Modulation option	TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation optional	
Expected lifetime (hours)	10000	
Warranty	1 year	



Note: The laser head needs to be used on a heat sink with good heat dissipation.



OEM-U-1047	PSU-SR-DC12V
<p>142.5 (L)×60(W) ×50(H) mm<sup>3</sup>, 1.0 kg</p>	<p>152(L) ×114(W) ×50(H) mm<sup>3</sup>, 0.5kg</p>