

MDL-S-XXX

SPECIFICATIONS



DIODE S SERIES LASERS

MDL-S laser series, features with integrated electronics, plug and play, miniaturization, standardization of interface advantages of continuous diode lasers. It is the ideal solution for a wide range of applications including life sciences, environmental monitoring, inspection and machine vision.



Wavelength (nm)	375±5	405±5	450±5	520±5	637±5
Operating mode	CW				
Output power (mW)	>1,2,3,....,50	>1,2,3,....,200	>1,2,3,....,30	>1,2,3,....,50	>1,2,3,....,100
Power stability (rms, over 4 hours)	<1%, <3%				
Transverse mode	Near TEM ₀₀				
Noise of amplitude(rms,20Hz~20MHz)	<1%(<0.5%, optional)				
M ² factor	<1.5	<1.2			
Beam diameter at the aperture (1/e ² ,mm)	~1.0				
Beam divergence, full angle (mrad)	<1.0				
Polarization ratio	>50:1 (>100:1, optional) Horizontal±5 degree (Vertical Optional)				
Warm-up time (minutes)	<5				
Pointing stability after warm-up (mrad)	<0.05				
Beam height from base plate (mm)	19				
Operating temperature (°C)	10~35				
Input voltage	+12VDC				
Expected lifetime (hours)	10000				
Warranty	1 year				



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

