

454 nm Narrow Linewidth Diode Laser MDL-E-454

Model #: MDL-E-454

Description: 454nm laser diode module at MDL-E-454 features narrow spectral linewidth, stable wavelength, ultra compact, long lifetime, low cost and easy operating.



Application: Precision measurement, high resolution spectrum analysis, etc.

Specifications

Wavelength (nm)	454 ± 5
Operating Mode	CW
Output Power (mW)	>1, 2, 3,.....,30
Power Stability (rms, over 4 hours)	<1%, 3%, <5%
Transverse Mode	Near TEM ₀₀
Spectral Linewidth (nm)	<0.06; (<0.03 with external heatsink)
M ² Factor	<1.5
Beam Diameter at the Aperture (mm)	~2.5
Beam Divergence, Full Angle (mrad)	<1.0
Polarization Ratio	>50:1 (>100:1 optional) Horizontal +/-5 degree (Vertical optional)
Warm-up Time (minutes)	<15
Beam Height from Base Plate (mm)	30
Operating Temperature (C°)	20 ~ 30
Power Supply (90-264VAC or 5V DC)	PSU-III-FDA
Expected Lifetime (hours)	10000
Warranty Period	1 year

Ordering Information: MDL-III-410-A-B-C

A: maximum output power	B: power stability	C: power driver
20 - 20 mW	1 – 1%	1 - PSU-III-FDA
30 - 30 mW	3 – 3%	
50 – 50 mW	5 – 5%	
100 - 100 mW		
X - other		

MDL-III-454	PSU-III-FDA
 <p data-bbox="446 436 690 457">122.5 (L) × 65 (W) × 50 (H) mm³</p>	 <p data-bbox="925 426 1209 447">171 (L) × 130(W) × 62.2 (H) mm³, 1.2kg</p>
