

450 nm Blue Laser Diode MDL-III-450

Model #: MDL-III-450

Description: Blue violet diode laser module at 450 nm MDL-III-450 features ultra compact, long lifetime, low cost and easy operating.

Application: Scientific research, laser pointing, show and RGB mixed laser systems applications, etc.

Specifications

Wavelength (nm)	450 ± 5	
Output Power (mW)	>1, 2, 3, ... 500	>500, 600, ... 1000
Transverse Mode	Near TEM ₀₀	
Operating Mode	CW	
Power Stability (rms, over 4 hours)	<1%, 3%, <5%	
Warm-up Time (minutes)	<5	
Beam Divergence, Full Angle (mrad)	<1.5	<3.0 x 0.5
Beam Diameter at the Aperture (mm)	~ 5	~ 2 x 4
Beam Height from Base Plate (mm)	24.8	
Pointing Stability after Warm-up (mrad)	<0.05	
Operating Temperature (C°)	10 ~ 35	
Power Supply (90-264VAC or 5V DC)	PSU-III-LED or PSU-III-FDA	
Modulation Options	TTL on/off (Optional: TTL or analog 1Hz-5KHz, 1Hz-10KHz, 1Hz-30KHz modulation)	
Expected Lifetime (hours)	10000	
Warranty Period	1 year	

Ordering Information: MDL-III-450-A-B-C-D

A: maximum output	B: power stability	C: power driver	D: Modulation
1 - 200 mW	1 - 1%	1 - PSU-III-FDA	TTL on/off
500 - 500 mW	3 - 3%	2 - PSU-III-LED	1Hz to 5kHz
1000 - 1000 mW	5 - 5%		1Hz to 10KHz
X - other			1Hz to 30kHz

