

## 445 nm Blue Laser Diode MDL-III-445

**Model #:** MDL-F-445

**Description:** Violet diode laser module at 445 nm MDL-F-445 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)	445 ± 5
Output Power (mW)	>1000, 1500, ..., 2000
Transverse Mode	Near TEM <sub>00</sub>
Operating Mode	CW
Power Stability (rms, over 4 hours)	<1%, 3%, <5%
Warm-up Time (minutes)	<5
Beam Divergence, Full Angle (mrad)	<1.5
Beam Diameter at the Aperture (mm)	~ 4 x 4
Beam Height from Base Plate (mm)	45
Pointing Stability after Warm-up (mrad)	<0.05
Operating Temperature (C°)	10 ~ 35
Polarization Orientation	Vertical or horizontal
Power Supply (90-264VAC or 5V DC)	PSU-F-LED, PSU-III-FDA or PSU-F-OEM-S
Modulation	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-445-A-B-C

A: maximum output power	B: power stability	C: power driver
1500 - 1500 mW	1 – 1%	1 - PSU-F-FDA
2000 - 2000 mW	3 – 3%	2 - PSU-F-LED
	5 – 5%	3 – PSU-F-OEM-S
X - other		

MDL-III-445	PSU-F-LED
 <p data-bbox="446 432 699 457"><b>209(L)×88(W)×74(H) mm<sup>3</sup>, 1.6kg</b></p>	 <p data-bbox="933 432 1211 457"><b>268(L) ×145(W) ×106 (H) mm<sup>3</sup>, 2.6kg</b></p>
	
PSU-F-FDA	PSU-F-FDA
 <p data-bbox="440 1056 724 1081"><b>238 (L) ×146(W) ×102 (H) mm<sup>3</sup>, 2.3kg</b></p>	 <p data-bbox="933 1062 1198 1087"><b>190(L)×104(W) ×85(H) mm, 1.3 kg</b></p>
	

