



NECSEL™ BLUE

BLUE LASER DIODE - 445 NM

Version 1.1

EFFICIENT & POWERFUL

The Necsel Blue Laser contains direct emitting diodes and produces 3.5 W of power. This laser has excellent power conversion efficiency and comes standard in a fiber-coupled package. For users who want to get started right away, combine this laser with the Necsel Blue Developer's Kit.

FEATURES

- 3.5 W of Power*
- 30,000 hrs of Lifetime*
- Direct Emitting Diode
- Easily Modulated
- Low Energy Consumption
- Optional Free Space Design
- Optional Developer's Kit

APPLICATIONS

- Digital Projection
- Remote Source Lighting
- Hazardous Lighting
- Phosphor Illumination
- Laser Light Shows
- Medical
- Forensics



SPECIFICATIONS SUMMARY

Parameter	Min	Limits Typ	Max
Operating Power*	3.5 W		
Temperature	30°C		
Wavelength Range	440 nm	445 nm	449 nm
Slope Efficiency	1.3 W/A		

RECOMMENDED DRIVE CONDITIONS

Laser Diode Voltage	11.5 V	14.5 V	17 V
Operating Current* (CW)	-	1.2 A	1.7 A
Threshold Current	100 mA	-	220 mA

FIBER-COUPLING OPTIONS

Connector	SMA-905
Fiber Core Diameter	400 μm
Fiber NA	0.22

OPTIONAL ACCESSORIES



TRANSPORT FIBER



DEVELOPER'S KIT

