



## **LXC Series – 635nm-980nm High Performance Laser Diode Modules** *Circular Beam, Focus Adjustable, Dia. 0.5in, with DC-Jack Connector*



### **Overview**

The Lasermate LXC Series is a complete OEM laser diode module system, offering wavelengths from 635nm to 980nm and output power up to 50mW. Featuring adjustable focus, soft-start protection, and a circular beam profile, these modules are built for demanding industrial environments. A convenient DC-jack connector simplifies integration. Ideal for low-power laser applications requiring performance, flexibility, and reliability.

### **Features**

- Wide range of wavelengths from 635nm to 980nm (including 650nm, 670nm, 780nm, 808nm, 850nm, 904nm)
- Wide range of output power up to 50mW
- High performance and low cost
- Adjustable focus
- Soft-start protection
- Circular beam profile
- Singlet plastic collimating lens
- With DC-Jack connector

## Product Overview

The following table shows the list of available part numbers, wavelength, optical output power, laser class, operating voltage, operating current, and operating temperature for LXC series laser modules.

Part Number	Wavelength (nm)	Optical output power (mW)	Laser class	Operating voltage (VDC)	Operating current typical (mA)	Operating temperature (°C)
LXC6351AH	635	0.5-0.99	II	5	40	-10 to +50
LXC6352AH	635	1.2-2	IIIa	5	40	-10 to +50
LXC6354AH	635	2.5-4	IIIa	5	60	-10 to +50
LXC6358AH	635	5-8	IIIb	5	90	-10 to +40
LXC6501AH	650	0.5-0.99	II	5	30	-10 to +50
LXC6502AH	650	1.2-2	IIIa	5	30	-10 to +50
LXC6504AH	650	2.5-4	IIIa	5	50	-10 to +50
LXC6608AH	660	5-8	IIIb	5	80	-10 to +50
LXC66012AH	660	10-14	IIIb	5	115	-10 to +50
LXC7802AH	780	1.2-2	IIIb	5	35	-10 to +50
LXC78014AH	780	10-14	IIIb	5	90	-10 to +50
LXC8082AH	808	1.2-2	IIIb	5	35	-10 to +40
LXC8502AH	850	1.2-2	IIIb	5	35	-10 to +50
LXC8504AH	850	2.4-4	IIIb	5	45	-10 to +50
LXC85014AH	850	10-14	IIIb	5	75	-10 to +50
LXC9042AH	904	1.2-2	IIIb	5	35	-10 to +50
LXC9044AH	904	2.4-4	IIIb	5	45	-10 to +50
LXC9804AH	980	2.4-4	IIIb	5	45	-10 to +40
LXC9808AH	980	5-8	IIIb	5	70	-10 to +40
LXC98014AH	980	10-14	IIIb	5	80	-10 to +40

## Specifications of LXC Series Laser Diode Modules

Wavelength (nm)	635	650	780	808	850	904	980
Tolerance	+/-10 nm @ 25 °C						
Laser light	Visible Red			Infrared			
Laser class	Class II <1mW, Class IIIa <5mW, Class IIIb >5mW			Class IIIb			
Diode structure	Index guided						
Diode output power	5-50mW						
Operating current	30-90mA typical						
Operating voltage	4.5–6 VDC or 4.5–9 VDC						
Drive circuit	Regulated APC with soft-start protection						
Optics	Singlet plastic collimating lens						
Beam divergence	< 0.5 mrad						
Beam size @ 7 m	Dia. ~ 5 mm						
Beam profile	Circular						
Focus	Adjustable						
Operating temperature	-10 to +40 °C or -10 to +50 °C						
Connector	5V DC-Jack connector						
Dimensions	Dia. 0.5" x L. 2"						
Weight	35 gm typical						
Option	Connecting to cross hair optics, LO- series line optics & TC- series beam expander						

### Additional Notes

- The LXC series laser modules are designated solely as OEM components for incorporation into the customer's end products. Therefore, it is the customer's responsibility to comply with the appropriate requirements of FDA 21CFR, section 1040.10 and 1040.11 for complete laser products. For the code of FDA regulations, please refer to [FDA Performance Standards for Light-Emitting Products](#) for detailed information.
- Additional heat sink may be needed if the laser module is operated continuously for a long period of time.
- Specifications are subject to change without notice.



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