



LTG-A24 Series – 635nm-980nm Laser Diode Modules

Elliptical Beam, Adjustable Focus, Operating Voltage 24-28VDC



Description

The Lasermate LTG-A24 series offers OEM laser diode modules covering wavelengths from 635nm to 980nm with adjustable focus and elliptical beam output. Operating at 24-28VDC, these modules are available in multiple power levels and are ideal for industrial applications requiring stable, high-quality laser performance.

Features

- Wavelengths from 635nm to 980nm (including 650nm, 780nm, 830nm, 850nm, 904nm)
- Different output power levels for all wavelengths
- Adjustable focus
- Elliptical beam
- Operating voltage 24-28VDC

Product Overview

The following table shows the list of available part numbers, wavelength, optical output power, laser class, operating voltage, and operating temperature for LTG-A24 series laser modules.

Part Number	Wavelength (nm)	Optical output power (mW)	Laser class	Operating Voltage (V DC)	Operating Temperature (°C)
LTG6351A24	635	0.5-0.99	II	24-28	-10 to +50
LTG6354A24	635	2.5-4	IIIa	24-28	-10 to +50
LTG6358A24	635	5-8	IIIa	24-28	-10 to +40
LTG6501A24	650	0.5-0.99	II	24-28	-10 to +50
LTG6504A24	650	2.5-4	IIIa	24-28	-10 to +50
LTG6508A24	650	5-8	IIIa	24-28	-10 to +40
LTG7804A24	780	2.5-4	IIIb	24-28	-10 to +50
LTG7808A24	780	5-8	IIIb	24-28	-10 to +40
LTG78016A24	780	10-16	IIIb	24-28	-10 to +40
LTG8308A24	830	5-8	IIIb	24-28	-10 to +40
LTG8508A24	850	5-8	IIIb	24-28	-10 to +40
LTG9048A24	904	5-8	IIIb	24-28	-10 to +40
LTG9808A24	980	5-8	IIIb	24-28	-10 to +40
LTG98016A24	980	10-16	IIIb	24-28	-10 to +40

Specifications of LTG-A24 Series Laser Diode Modules

Model Number	LTG635- X ₁ A24	LTG650- X ₁ A24	LTG780- X ₁ A24	LTG830- X ₁ A24	LTG850- X ₁ A24	LTG904- X ₁ A24	LTG980- X ₁ A24
Wavelength (nm)	635	650	780	830	850	904	980
Diode structure	Single mode						
Optical output power (mW)	For 635nm: 0.5-0.99 (X ₁ =1); 2.5-4 (X ₁ =4); 5-8 (X ₁ =8) For 650nm: 0.5-0.99 (X ₁ =1); 2.5-4 (X ₁ =4); 5-8 (X ₁ =8) For 780nm: 2.5-4 (X ₁ =4); 5-8 (X ₁ =8); 10-16 (X ₁ =16) For 830nm: 5-8 (X ₁ =8) For 850nm: 5-8 (X ₁ =8) For 904nm: 5-8 (X ₁ =8) For 980nm: 5-8 (X ₁ =8); 10-16 (X ₁ =16)						
Laser class	For 635nm-650nm: Class II <1mW, Class IIIa <5mW, Class IIIb >5mW For 780nm-980nm: Class IIIb						
Operating voltage (VDC)	24-28						
Drive circuit	APC						
Optics	Single glass collimating lens with AR coating						
Beam size at 5m (mm)	~6 x 8						
Beam profile	Elliptical						
Focus	Adjustable						
Operating temperature (°C)	-10 to +50 for X ₁ =1,4 -10 to +40 for X ₁ =8,16						
Connector	Black wire - & red wire +						
Dimensions (in)	Dia. 0.5 x L. 2						
Weight (gm)	~26.8						

Additional Notes

- The LTG-A24 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.
- An additional heat sink or cooling device may be needed.
- Specifications are subject to change without notice.



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