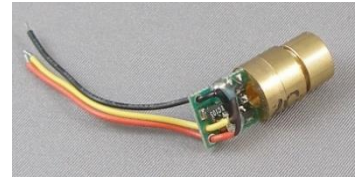




## **TTL Modulated 635nm-980nm Miniature Laser Diode Modules, Dia. 10.5mm x L. 15mm, Elliptical Beam**

### **PLP-T Series**



### **Overview**

The Lasermate PLP-T series laser diode module system with TTL modulation is a self-contained laser diode system designed for OEM applications with adjustable focusing and APC circuit design features. Additional heat sink may be needed for the laser module under continuously operating for a long period of time. Designed for OEM, the laser is ideal for a wide range of low power laser applications, such as general sighting, leveling and positioning.

### **Features**

- Wide range of wavelengths from 635nm to 980nm (including 650nm, 670nm, 780nm, 808nm, 850nm, 904nm)
- Different output power levels for different wavelengths
- Adjustable focus
- Elliptical beam profile
- Singlet plastic collimating lens
- Automatic Power Control (APC) circuits
- TTL modulation to 100kHz

### **Applications**

- General sighting
- Leveling
- Positioning

## 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 PLP-T series laser modules.

Part Number	Wavelength (nm)	Optical output power (mW)	Laser class	Operating voltage (V DC)	Operating Current typical (mA)	Operating temperature (°C)
PLP6351A5-T-B	635	0.5-0.99	II	5	40	-10 to +40
PLP6353A5-T-B	635	2.1-3	IIIa	5	40	-10 to +40
PLP6351A5-T-A	635	0.5-0.99	II	5	40	-10 to +50
PLP6353A5-T-A	635	2.1-3	IIIa	5	40	-10 to +50
PLP6501A5-T-B	650	0.5-0.99	II	5	25	-10 to +40
PLP6503A5-T-B	650	2.1-3	IIIa	5	25	-10 to +40
PLP6501A5-T-A	650	0.5-0.99	II	5	30	-10 to +50
PLP6503A5-T-A	650	2.1-3	IIIa	5	30	-10 to +50
PLP6506A5-T	650	4.2-6	IIIb	5	30	-10 to +50
PLP6701A5-T	670	0.5-0.99	II	5	40	-10 to +50
PLP6703A5-T	670	2.1-3	IIIa	5	40	-10 to +50
PLP7803A5-T	780	2.1-3	IIIb	5	30	-10 to +50
PLP8083A5-T	808	2.1-3	IIIb	5	30	-10 to +50
PLP8503A5-T	850	2.1-3	IIIb	5	30	-10 to +50
PLP9043A5-T	904	2.1-3	IIIb	5	30	-10 to +50
PLP9806A5-T	980	4.2-6	IIIb	5	35	-10 to +50

## Specifications of PLP-T Series Laser Diode Modules with TTL Modulation

Wavelength (nm)	635	650	670	780	808	850	904	980
Laser light	Visible Red			Infrared				
Laser class	Class II <1mW, Class IIIa <5mW			Class IIIb				
Diode output power	5-10mW							
Operating current	25-40mA typical							
Operating voltage	5 VDC (red wire "+" & black wire "-")							
Control voltage	Maximum 5V DC (yellow wire "+" & black wire "-")							
Drive circuit	APC (automatic power control) with modulator							
Bandwidth	Up to 100KHz							
Optics	Singlet plastic collimating lens							
Beam divergence	< 0.5 mrad							
Beam size @ 5 m	4x7 mm							
Beam profile	Elliptical							
Focus	Adjustable							
Operating temperature	-10 to +40 °C or -10 to +50 °C							
Connector	Red & yellow wires "+"; black wire "-"							
Dimensions	Brass case: Dia. 10.5mmx L. 15mm + PCB: W. 10mm x L. 11mm							

### Additional Notes

- The PLP-T 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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