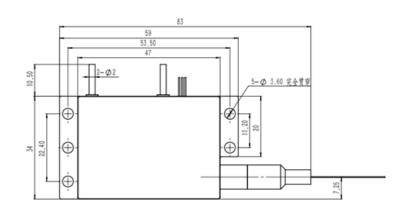


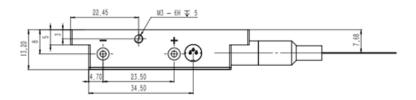
25W 808nm Multimode Fiber-Coupled Diode Laser



Dimensions Diagram

Unit: mm





Instruction for Use:

- Avoid exposure of the eyes or skin to direct or scattered radiation;
- ESD protection must be adopted during transportation, storage and operation. Short-circuit protection between pins is required during transportation and storage.
- For lasers with an operating current above 6A, please connect the leads using soldering. The soldering point should be as close as possible to the root of pin, with a temperature below 260°C, and a soldering duration less than 10 seconds ;
- Drive constant current power supply by laser and avoid surge while working;
- Operate under the rated current and rated power;
- · Good heat dissipation must be ensured when the laser device is operating;
- Operating temperature: 15°C to 55°C;
- Storage temperature: -30°C to + 70°C.





Specification

Parameter	Symbol	Minimum	Typical	Maximum	Unit					
Laser Data										
Output Power(CW)	Ро	25	-	-	w					
Centre Wavelength	λς	803	808	813	nm					
Spectral Width (FWHM)	Δλ	-	4.0	6.0	nm					
Threshold Current	Ith	-	1.5	2.0	А					
Operating Current	Іор	-	11.0	12.0	А					
Operating Voltage	Vop	-	5.4	6.0	V					
Convention Efficiency	η	-	40	-	%					
Slop Efficiency	SE	-	2.5	-	W/A					
Operating Case Temperature	Тс	15	25	55	°C					
Storage Temperature	Ts	-30	25	70	°C					
Wavelength shift vs. Temperature	Δλ / ΔΤ	-	0.3	-	nm/°C					
Fiber Data										
Core Diameter	Dc	197	200	203	nm					
Numeric Aperture	NA	0.20	0.22	0.24	-					
Cladding Diameter	Dcl	-	220	-	nm					
Buffer Diameter	Db	-	320	-	nm					
Fiber Length	Lf	0.9	-	-	m					
Fiber Tube Diameter	Dt	0.9	-	1.5	mm					
Connector		-	Bare end	-	-					
Others										
Lead soldering temperature, 10 s max	Tls	-	-	260	°C					
Fiber bend radius		50	-	-	mm					

*1. All performance data tested at a heat sink temperature of 25 °C, with the contact resistance between the case and the heat sink being less than 1 cm² K/W.



Ordering Information

For product inquiries and orders, please contact us at info@lasepro.com.

P/N	Wavelength	Power	NA	Feedback Protection	Protection Tube	Connector
LPFC8082501	808+/-5nm	25W	0.22NA	Yes	No	No
LPFC8082502	808+/-5nm	25W	0.22NA	Yes	0.9-1.5mm*	No
LPFC8082503	808+/-5nm	25W	0.22NA	Yes	0.9-1.5mm*	SMA

^{*} It is available with 2.0mm(Diameter) protection tube.