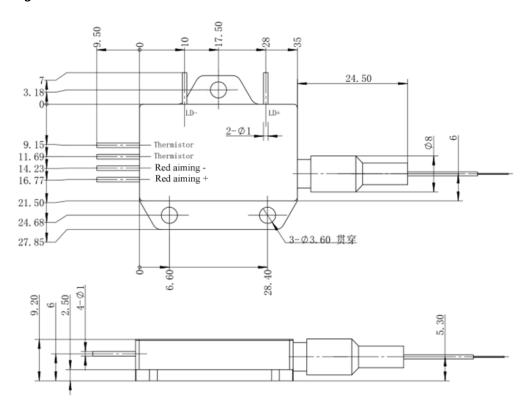


10W 808nm Multimode Diode Laser with red aiming beam



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	-	10	-	W
Centre Wavelength	λc	800	808	818	nm
Spectral Width (FWHM)	Δλ	-	4.0	-	nm
Threshold Current	Ith	-	0.7	0.9	Α
Operating Current	lop	-	10.5	12.0	Α
Operating Voltage	Vop	-	1.8	2.0	V
Convention Efficiency	η	-	45	-	%
Slop Efficiency	SE	-	0.9	-	W/A
Operating Case Temperature	Тс	15	25	55	°C
Storage Temperature	Ts	-30	25	70	°C
Wavelength shift vs. Temperature	Δλ / ΔΤ	-	0.35	-	nm/°C
Fiber Data					•
Core Diameter	Dc	-	200	-	nm
Numeric Aperture	NA	-	0.22	-	-
Cladding Diameter	Dcl	-	220	-	nm
Buffer Diameter	Db		320		nm
Fiber Length	Lf	0.9	-	-	m
Fiber Tube Diameter	Dt	-	0.9	-	mm
Connector		-	SMA905	-	-
Red Aiming beam					
Output Power	Pa	2	-	-	mW
Wavelength	λа	-	638	-	nm
Voltage	Va	-	2.5	2.8	V
Current	la	-	0.2	0.25	А
Others					
Lead soldering temperature, 10 s max	Tls	-	-	260	°C
Fiber bend radius		50	-	-	mm
Thermistor	Rt		10K	-	Ω

^{*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 cm^2 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
LPMF9151001	915+/-10nm	10W	0.22NA	Yes	0.9mm(Diameter)*	SMA
LPMF9401001	940+/-10nm	10W	0.22NA	Yes	0.9mm(Diameter) *	SMA
LPMF9751001	975+/-5nm	10W	0.22NA	Yes	0.9mm(Diameter) *	SMA

^{1. *}It is available with 2.0mm protection tube.

^{2.} The function of thermistor is optional.