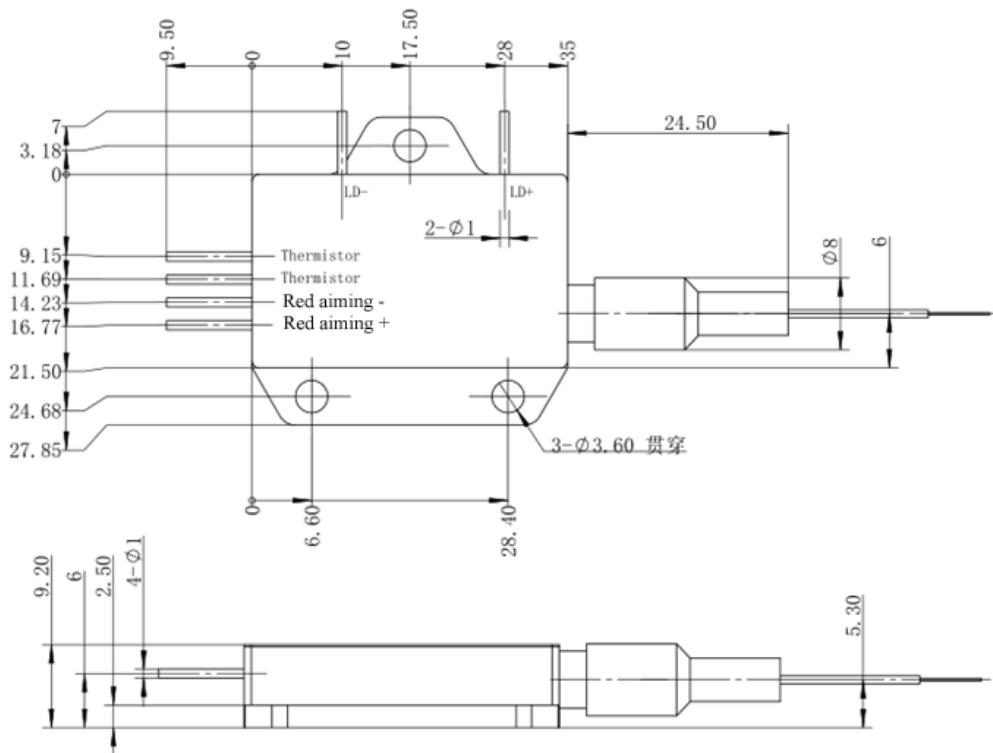


**10W 915/940/975nm
Multimode Diode Laser
with red aiming beam**

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)	P _o	10	-	-	W
Centre Wavelength	λ _c	930 970	940 975	950 980	nm
Spectral Width (FWHM)	Δλ	-	4.0	-	nm
Threshold Current	I _{th}	-	0.7	0.9	A
Operating Current	I _{op}	-	11.5	13.0	A
Operating Voltage	V _{op}	-	1.8	2.0	V
Convention Efficiency	η	-	50	-	%
Slop Efficiency	SE	-	0.9	-	W/A
Operating Case Temperature	T _c	15	25	55	°C
Storage Temperature	T _s	-30	25	70	°C
Wavelength shift vs. Temperature	Δλ / ΔT	-	0.35	-	nm/°C
Fiber Data					
Core Diameter	D _c	-	105	-	nm
Numeric Aperture	NA	-	0.22	-	-
Cladding Diameter	D _{cl}	-	125	-	nm
Buffer Diameter	D _b		250		nm
Fiber Length	L _f	0.9	-	-	m
Fiber Tube Diameter	D _t	-	0.9	-	mm
Connector		-	SMA905	-	-
Red Aiming beam					
Output Power	P _a	2	-	-	mW
Wavelength	λ _a	-	638	-	nm
Voltage	V _a	-	2.5	2.8	V
Current	I _a	-	0.2	0.25	A
Others					
Lead soldering temperature, 10 s max	T _{ls}	-	-	260	°C
Fiber bend radius		37.5	-	-	mm
Thermistor	R _t		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 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
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

* It is available with 2.0mm protection tube.