

Fiber-coupled Laser Diode

Lumispot Tech OEM Laser Diode Solutions



Focus On Fiber Coupled LD

Product Series

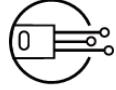
2W~50W 525nm Green Laser
790nm ~ 792nm Fiber-coupled Laser
808nm~888nm Fiber-coupled Laser
915nm ~ 976nm Fiber-coupled Laser



High-specification
packaging technology



High environmental
adaptability



Integrated
Optical design



Lightweight
Materials



Efficient
Heat dissipation



OEM Service
Available

Use of Fiber-Coupled Lasers as Pump Sources for Fiber Lasers

915nm and 976nm Fiber Coupled LD as the pump source for 1064nm~1080nm fiber laser.



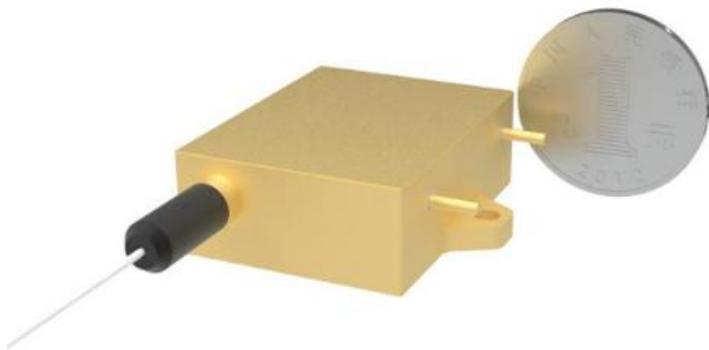
Fiber coupled laser diode with 940nm as pump source of 1550nm fiber laser

In the realm of 1550nm fiber lasers, fiber-coupled lasers with a 940nm wavelength are commonly used as pump sources. This application is particularly valuable in the field of laser LiDAR.



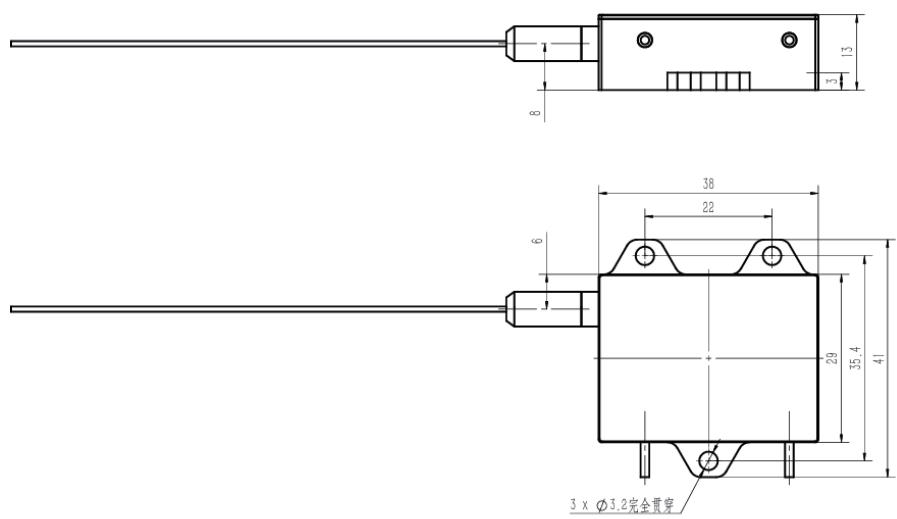
525nm Green Laser

Technical Datasheet



	Unit								
Central Wavelength	525	525	525	525	525	525	525	525	nm
Power	2	3.2	4	6	8	10	25	50	W
95% Power	0.21	0.2	0.2	0.2	0.2	0.21	0.21	0.21	NA
Operating Current	≤2	≤2	≤2	≤2	≤2	≤2	≤2	≤2	A
Operating Voltage	12	18	22	33	50	53	127	308	V
Electro-Optical Efficiency	≥12.5	≥12.5	≥12.5	≥10	≥9	≥12	≥12	≥12	%
Fiber Core Diameter	60	50	50	60	60	105	105	200	μm
Fiber Numerical Aperture (NA)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	NA
Fiber Length	0.3	1	1	0.3	0.3	2	2	1	m
Sheath Diameter	0.9	0.9	0.9	0.9	0.9	0.9	3	3	mm
Output End Type	FC	FC	FC	FC	FC	FC	FC	FC	/
External Dimensions (excluding nozzle, pins)	L:32.3 W:25 H:15.2	L:32 W:29 H:10	L:38 W:29 H:13	L:45 W:34 H:11.1	L:58 W:43.9 H:15.6	L:120 W:42 H:24	L:160 W:100 H:40	L:225 W:118 H:31	mm

*All of the parameters can be customized as demand.



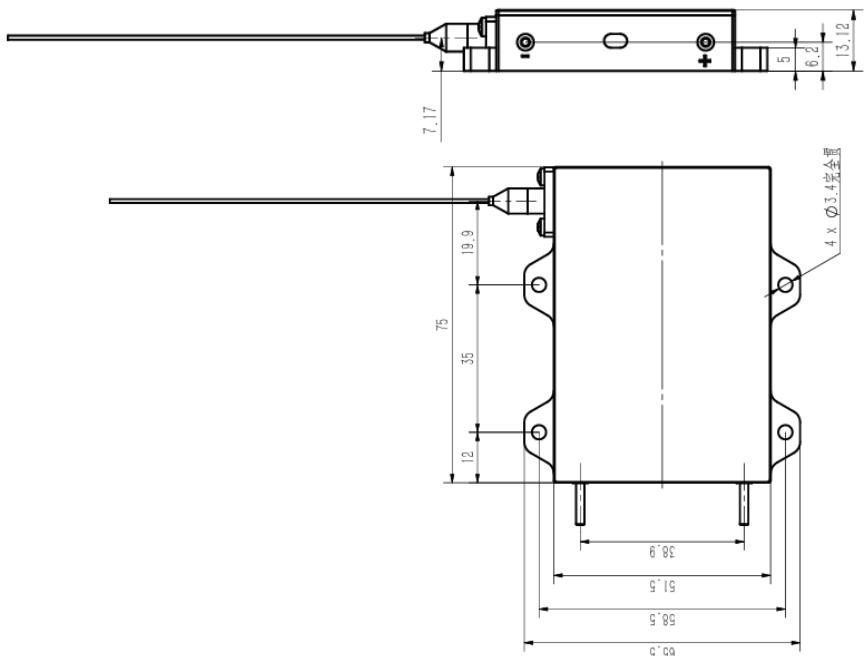
7xx Fiber-coupled Laser Diode

Technical Datasheet



						Unit
Center Wavelength	790	792	792	792	792	nm
Power	25	50	75	100	150	W
Spectral Width	5	5	5	5	5	nm
95% Power	0.15	0.18	0.2	0.16	0.18	NA
Temperature Drift Coefficient	0.3	0.3	0.3	0.3	0.3	mm/°C
Return Loss Isolation Range	1850-2100					nm
Operating Current	10	10	10	10	10	A
Operating Voltage	≤6	12	17	24	33	V
Electro-Optical Efficiency	≥45	≥45	≥45	≥45	≥45	%
Fiber Core Diameter	200	200	200	135	135	μm
Numerical Aperture of the Fiber	0.22	0.22	0.22	0.22	0.22	NA
Fiber Length	1.5					m
Sheath Diameter	0.9					mm
Output Connector Type	SMA905					/
Dimensions (excluding nozzle and pins)	L:32 W:29 H:10	L:58 W:37 H:14.72	L:58 W:43.9 H:15.6	L:75 W:51.5 H:13.12	L:75 W:51.5 H:13.12	mm

*All of the parameters can be customized as demand.



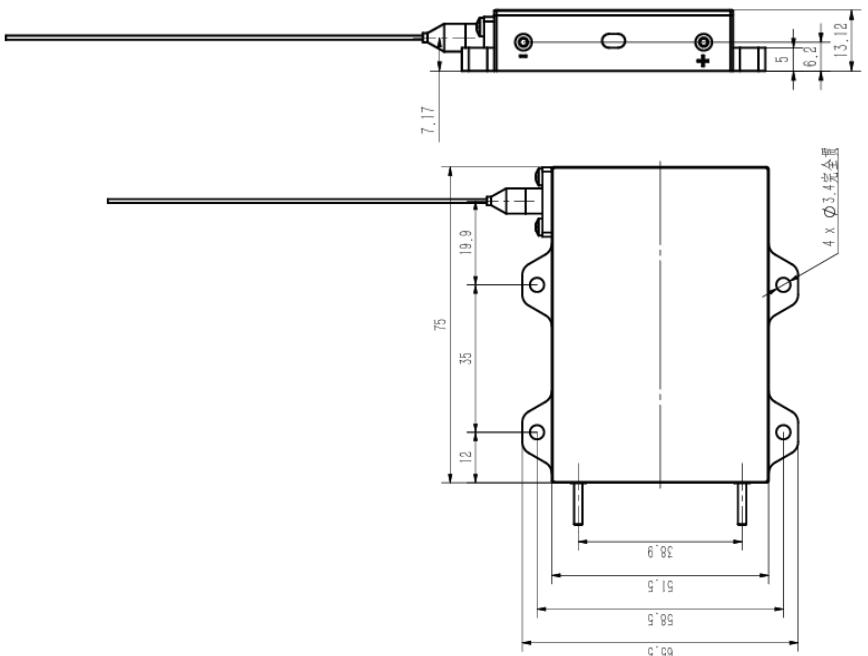
8xx Fiber-coupled Laser Diode

Technical Datasheet



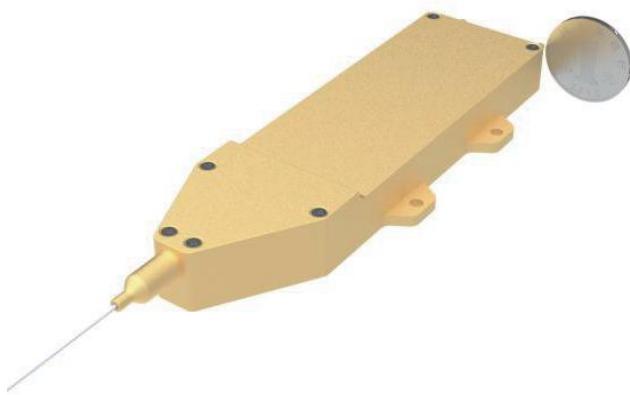
									Unit
Center Wavelength	808	808	808	808	808	808	878.6	888	nm
Power	25	30	50	75	110	150	175	175	W
Spectral Width	5	5	5	5	5	5	1	1	nm
95% Power	0.15	0.15	0.18	0.2	0.2	0.18	0.18	0.18	NA
Temperature Drift Coefficient	0.3	0.3	0.3	0.3	0.3	0.3	0.015	0.02	mm/°C
Return Loss Isolation Range	1030-1200							nm	
Operating Current	10	15	10	10	15	10	11.5	13	A
Operating Voltage	≤6	≤6	12	17	17	33	30	28	V
Electro-Optical Efficiency	≥45	≥45	≥45	≥45	≥45	≥45	≥51	≥50	%
Fiber Core Diameter	200	400	200	200	200	135	200	200	μm
Numerical Aperture of the Fiber	0.22							NA	
Fiber Length	1.5							m	
Sheath Diameter	0.9	2	0.9	0.9	0.9	0.9	0.9	0.9	mm
Output Connector Type	SMA905							/	
Dimensions (excluding nozzle and pins)	L:32 W:29 H:10	L:32 W:29 H:10	L:58 W:37 H:14.72	L:58 W:43.9 H:15.6	L:58 W:43.9 H:15.6	L:75 W:51.5 H:13.12	L:75 W:51.5 H:13.12	L:75 W:51.5 H:13.12	mm

*All of the parameters can be customized as demand.



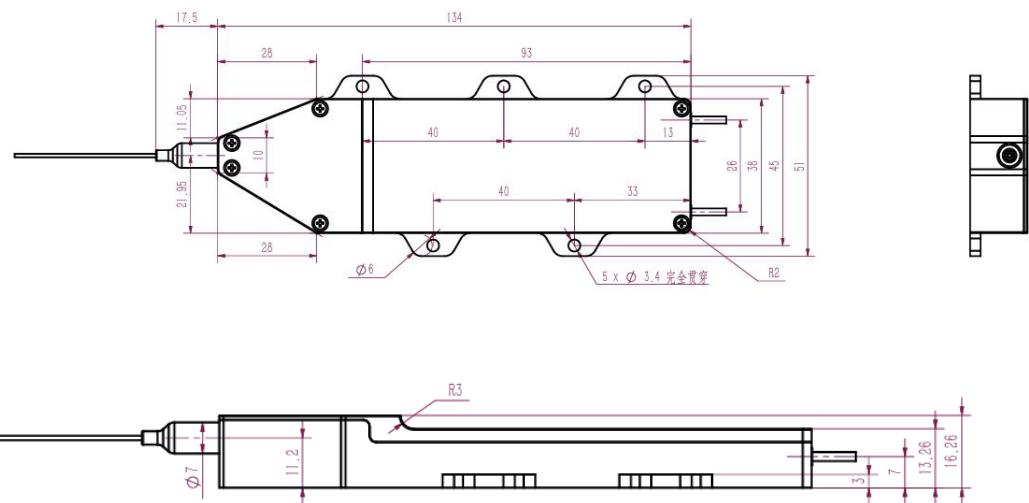
9xx Fiber-coupled Laser Diode

Technical Datasheet



									Unit
Center Wavelength	915	915	915	976	976	976	976	976	nm
Power	200	300	700	280	260	370	360	510	W
Spectral Width	5	5	5	5	1	5	1	1	nm
95% Power	0.18	0.18	0.2	0.18	0.18	0.18	0.18	0.2	NA
Temperature Drift Coefficient	0.3	0.3	0.3	0.3	0.02	0.3	0.02	0.02	mm/°C
Return Loss Isolation Range	1030-1200								nm
Operating Current	16	20.5	30	18	17.5	25	25	29	A
Operating Voltage	24	30	50	29	29	29	29	36	V
Electro-Optical Efficiency	≥55	50	49	50	52	52	50	49	%
Fiber Core Diameter	200	135	220	135	135	200	200	220	μm
Numerical Aperture of the Fiber	0.22								NA
Fiber Length	1.5								m
Sheath Diameter	0.9								mm
Output Connector Type	Tail Fiber Output								/
Dimensions (excluding nozzle and pins)	L:118 W:37 H:15.92	L:75 W:51.5 H:13.12	L:165 W:48.5 H:21	L:75 W:51.5 H:13.12	L:118 W:37 H:15.92	L:118 W:37 H:15.92	L:118 W:37 H:15.92	L:134 W:38 H:16.26	mm

*All of the parameters can be customized as demand.



Company Profile

About Lumispot Tech

We're
Lumispot Tech



¥ 78million
Register Capital

6+
Ph.D

80%
Proportion of Talent

150+
Patents



Founded in 2010, Lumispot Technology Group, with its headquarters in Wuxi, boasts a registered capital of CNY 78.55 million. Our expansive facility covers an area of approximately 25,000 square meters and is powered by a dedicated team of over 500 employees. Over the past 14+ years, Lumispot has emerged as a frontrunner in the specialized field of laser information technology, underpinned by a robust technical foundation.

We specialize in the research and development of laser technology, providing a diverse portfolio of products. This range encompasses laser diodes, erbium lasers, fiber lasers, and solid-state lasers, as well as comprehensive systems including laser rangefinder modules, LiDAR lasers, structured lasers, illumination systems, Fiber Optic Gyro (FOG) components, and dazzlers. Our products find extensive applications across various sectors such as defense and security, LiDAR systems, remote sensing, inertial navigation, and technical research.

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Illuminate Future From Laser

We aim to become the global leader in laser special information domain.

