

1.5μm Pulsed Fiber Laser

Lumispot Tech OEM Laser LIDAR Solution



Focus On LIDAR Laser Source

Our Major Technology

Nanosecond-Level Narrow Pulse Drive Tech
Optical Nonlinear Effect Suppression Tech
Unique Power Consumption Optimization Tech
Near-Diffraction-Limit Beam Quality Control Tech



Remote Sensing Mapping

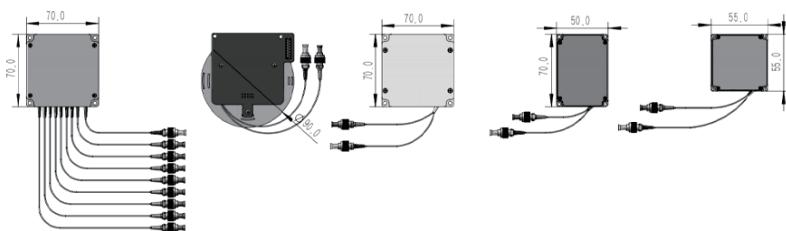
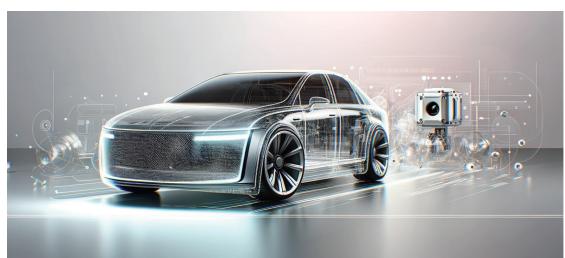


Automotive LiDAR



Obstacle Avoidance

This product Series is 1.5μm pulsed fiber laser light source from LumisSpot Technology Co., Ltd. This product has the characteristics of high electricity-light conversion efficiency, low ASE noise, low power consumption, wide range of working temperature and non-linear noise, which is suitable for using as the laser light source of remote sensing mapping, ranging, LiDAR and obstacle avoidance .

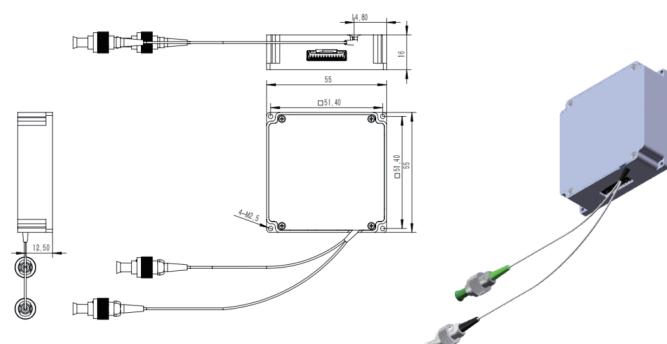


1.5μm/1kW Mini Pulsed Fiber Laser

Lumispot Tech OEM Laser LIDAR Solution



LSP-FLMP-1535-04-mini	Unit	Min.	Typical	Max.	Remarks
Central Wavelength	nm	1532	1535	1537	Customization 1550
Pulsed Width(FWHM)	ns	-	3	-	Adjustable
Repetition Frequency	MHz	0.1	0.5	2	Adjustable
Average Power	W	0.7	1	1.1	@3ns,500kHz,25°C,100%DAC Setting
Peak Power	W	-	1000	-	
spectral distribution	%	90			Fractional Bandwidth@3ns,500kHz
Jitter			80		taking reference light as a benchmark
Trigger Mode	NA		External Trigger		
electric power consumption	W			13	@Typical Output 1W
operating voltage	V	9	12	13	
Electrical Interface Model			MOLEX 505567-1281		
Operating Temperature(@Shell)	°C	-40		85	
Storage temperature	°C	-40		95	
Package Size	mm		55*55*19		Customization 55*55*16mm
Weight	g			70	
Optical output method			FC/APC (Main output) FC/UPC (Reference Light)		900um Sleeve
The length of the reference light	m			0.3	



1.5μm/3kW Pulsed Fiber Laser

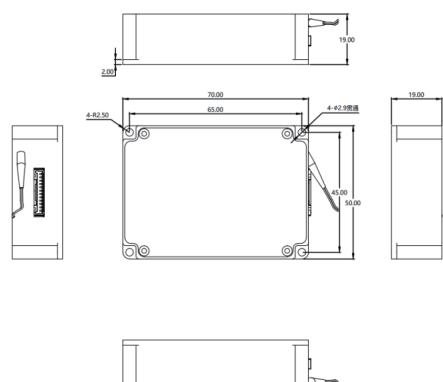
Lumispot Tech OEM Laser LIDAR Solution



LSP-FLMP-1535-02	Unit	Min.	Typical	Max.	Remarks
Central Wavelength	nm	1547	1550	1553	Customization 1535
Pulsed Width(FWHM)	ns	-	3	-	Adjustable
Repetition Frequency	MHz	0.1	0.5	2	Adjustable
Average Power	W	0.95	1	2	@3ns,500kHz,25°C
Peak Power	kW	-	1.4①	1.6	3.3kW Peak Power Customizable②
spectral distribution	%	90			Fractional Bandwidth@3ns,500kHz
Jitter			80		taking reference light as a benchmark
Trigger Mode	NA		External Trigger		
electric power consumption	W		13	15	@Typical Output 1W
operating voltage	V	9	12	13	
Electrical Interface Model			MOLEX 505567-1281		
Operating Temperature(@Shell)	°C	-40		85	
Storage temperature	°C	-40		105	
Package Size	mm		50*70*19		Customization 55*55*16mm
Weight	g			100	
Optical output method		FC/APC (Main output) FC/UPC (Reference Light)			900um Sleeve
The length of the reference light	m		0.18		

Note:

- ① Typical Value @3ns, 500kHz, 2W, 25°C
- ② E.g. Pp ≥3.3kW @CWL1535nm, 50kHz.



High Peak Power Pulsed Fiber Laser

Lumispot Tech OEM Laser LIDAR Solution



LSP-FLMP-1550-15k-04-S5-01-T	Unit	Min.	Typical	Max.	Remarks
Polarization State			Random		
Central Wavelength	nm	1547	1550	1553	1064nm Customizable
Pulsed Width(FWHM)	ns		3	5	Fixed Pulsed Width
Repetition Frequency	KHz	30	50	100	Customizable
Average Power	W		3	4	
Peak Power	kW		12	15	
Jitter	ns			3	
Trigger Mode			Internal/External Trigger		
Operating Voltage	V		28		
Power Consumption	W			100	
Electrical Interface Model			J29A-15ZKW		
Operating Temperature	°C	-40		60	
Storage temperature	°C	-40		95	
Package Size	mm		160*160*30		
Weight	g			2000	
Optical output method			Jump Wire		Tailored Collimator
The length of the Fiber	mm		300		3mm Sleeve

