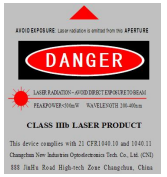
OEM-S-xxx-MD series

LD PUMPED ALL-SOLID-STATE LASER



The all-solid-state laser features high output power stability, an excellent beam profile, an ultra-compact size, a wide operating temperature range, excellent sealing, a long lifetime, cost-effectiveness, and ease of operation. It is capable of operating at pressures as low as 0.02 kPa and is widely used in collimation, laser medical treatment, scientific experiments, optical instrumentation, laser displays, and laser lighting shows.

SPECIFICATIONS

Wavelength (nm)	545±1		561±5		577±2		589±2	
Operating mode	CW							
Output mode	Free space output mode	Fiber coupling output mode	Free space output mode	Fiber coupling output mode	Free space output mode	Fiber coupling output mode	Free space output mode	Fiber coupling output mode
Output power (mW)[1]	1-1000		1-800		1-1000		1-800	
Power stability (rms, 4 hours ±3°C)	<2%, <1%		<5%, (<1% optional)					
Beam mode longitudinal	Multimode							
Transverse mode	TEM_{n1}							
Beam diameter at the aperture ($1/e^2$, mm)	<1.5	/	<1.5	/	<1.5	/	<1.5	/
Beam divergence, full angle (mrad)	<30	/	<30	/	<30	/	<30	/
Fiber core diameter[2]	/	200μm	/	200μm	/	200μm	/	200μm
Fiber connector[3]	/	FC/PC	/	FC/PC	/	FC/PC	/	FC/PC
Fiber length[4]	/	1m	/	1m	/	1m	/	1m
Warm-up time (minutes)	<10							
Beam height from base plate (mm)	15.6	/	15.6	/	15.6	/	15.6	/
Maximum current (mA)	4000		10000					
Operating voltage (VDC)	5		2±0.1V					
Thermistor resistance	10kΩ@25℃							
Power consumption (W)	<20							
Storage temperature (℃)	0-60							
Expected lifetime (hours)	>10000							

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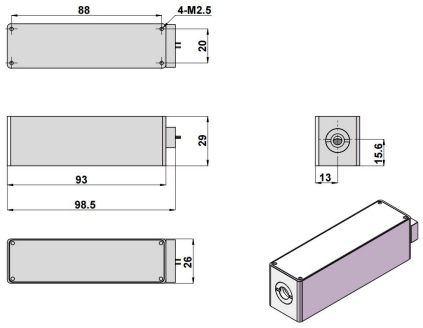
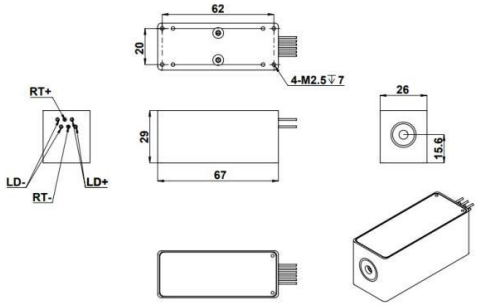
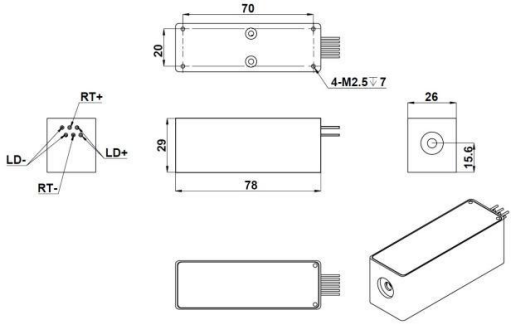
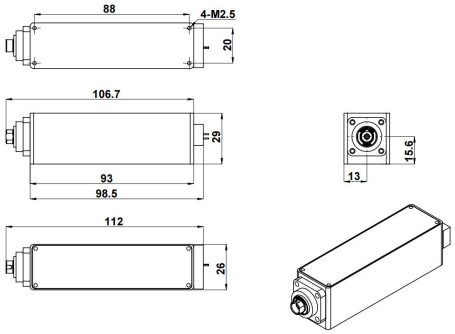
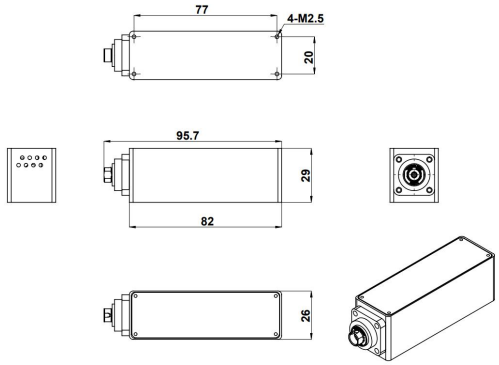
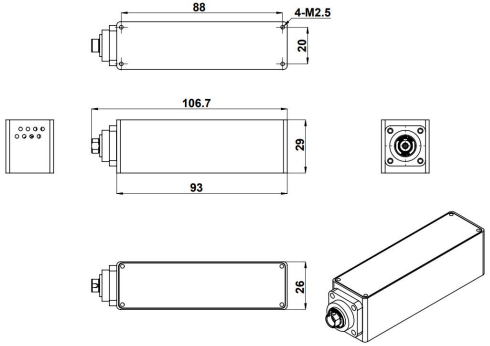
LASER HEAD (OEM-S-545-MD)	LASER HEAD (OEM-S-577-MD)	LASER HEAD (OEM-S-561/589-MD)
		
98.5(L)×26(W)×29(H) mm³，0.35kg	67(L)×26(W)×29(H) mm³，0.29kg	78(L)×26(W)×29(H) mm³，0.32kg
LASER HEAD (OEM-S-545-MD, Fibre coupling)	**LASER HEAD (OEM-S-577-MD, Fibre coupling)**	**LASER HEAD (OEM-S-561/589-MD, Fibre coupling)**
		
112(L)×26(W)×29(H) mm³，0.45kg	95.7(L) ×26(W) ×29 (H) mm³，0.45kg	106.7(L)×26(W)×29(H) mm³，0.48kg

1 Any power level can be selected in this range.

2 Other core diameters are available upon request.

3 Other connectors are available upon request.

4 Other lengths are available upon request.