



**MRL-S-xxx-OEM series**



**LD PUMPED ALL-SOLID-STATE LASER**

All solid state laser is made features of high output power stability, good beam profile, ultra compact, small size, wide operating temperature, good sealing, long lifetime, cost-effectiveness and easy operating, working under the pressure of 0.02kPa, which is widely used in collimation, laser medical treatment, scientific experiment, optical instrument, laser display, laser lighting show, etc.



**SPECIFICATIONS**

Model	MRL-S-671-A-OEM (Harsh condition)		MRL-S-671-B-OEM (Normal condition)	
Wavelength (nm)	671±1			
Operating mode	CW			
Output power (mW)	1-100	100-200	1-100	100-200
Power stability (rms, over 4 hours)	<3%, <2%, <1%	<3%, <2%	<3%, <2%, <1%	<3%, <2%
Transverse mode	TEM <sub>00</sub>			
M <sup>2</sup> factor	<1.2			
Beam diameter at the aperture( 1/e <sup>2</sup> , mm)	<1.0			
Beam divergence, full angle (mrad)	<1.5			
Polarization ratio	>100:1, Vertical (Horizontal Optional)			
Pointing stability after warm-up (mrad)	<0.05			
Pointing stability Over Temp. (μrad/°C)	<8			
Warm-up time (minutes)	<5			
Beam height from base plate (mm)	19			
Power Consumption(W)	<30			
Shock Tolerance(6ms)	7g laterally, 15g vertically			
IP Rating	IP67		IP65	
Power supply(90-264VAC)	PSU-SR-DC12V (OEM)		PSU-III-OEM-97 (5VDC)	
Operating temperature (°C)	0-60		10-35	
Max. Heat Dissipation of Head(W)	10W@50°C		4W@25°C	
Modulation optional	TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation optional			
Expected lifetime (hours)	10000			
Warranty	1 year			

**Note: The laser head needs to be used on a heat sink with good heat dissipation.**

LASER HEAD (Harsh condition)	LASER HEAD (Normal condition)
<p><b>110(L)×50(W)×38(H) mm<sup>3</sup>, 0.6 kg</b></p>	<p><b>100 (L) ×40 (W) ×40(H) mm<sup>3</sup>, 0.36kg</b></p>
POWER SUPPLY (PSU-SR-DC12V)	POWER SUPPLY (PSU-III-OEM-97)
<p><b>152(L) ×114(W) ×50(H) mm<sup>3</sup>, 0.5kg</b></p>	<p><b>94(L)×75(W)×49(H)mm<sup>3</sup>, 0.23kg</b></p>