

Stabilized HeNe Laser

SL 02 Series


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System parameter	SL 02/1	SL 02/2
Beam polarization	single linearly polarized longitudinal mode	two mutually orthogonal linearly polarized modes
Wavelength	632.8 nm	
Output power	≥1,2 mW (typ. 1.5 mW)	≥2,4 mW (typ. 3 mW)
Amplitude noise (30 Hz - 10 MHz)	<0.5 %	
Beam diameter (TEM ₀₀)	0.63 mm	
Beam divergence (TEM ₀₀)	1.3 mrad	
Warm-up time to achieve stable operation	≤10 min	
Frequency stability 1min/ 1h/ 24h relatively or absolutely after 40 min warm-up	±2·10 ⁻⁹ / ±5·10 ⁻⁹ / ±10·10 ⁻⁹ ca. ±1 MHz/ ±2,5 MHz/ ±5 MHz	
Max. thermal frequency drift	<2 MHz/K	
Max. tolerated optical feedback	<1·10 ⁻⁵	
Operating temperature range	+15...+30 °C	
Storage temperature range	-40...+50 °C	
Typical life time	>25,000 h	
Geometric data		
Dimensions (L x W x H): Laser head Power supply	Ø50 mm x 410 mm 105 mm x 68 mm x 39 mm	
Mass: Laser head Power supply	900 g 350 g	
Internal thread standard	1.000"-32	
Length of cable connecting laser head and power supply	1.5 m, optional bis 3 m	
Electrical data		
Input voltage	100...240 VAC / 47...63 Hz	
Power consumption during stabilization	<20 W	
Laser safety class according to DIN EN 60825-1:2014 ANSI Z136.1 (CDRH)	3R IIIa	

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