Technical data sheet

Stabilized HeNe Laser
SL 04 Series

SIOS Meßtechnik GmbH

System parameter	SL 04/A	SL 04/B
Beam polarisation	single linearly polarized longitudinal mode	
Wavellength	632,991234 ±0,0002 nm	
Output power	≥1,2 mW (typ. 1,5 mW)	≥1,5 mW
Amplitude noise (30 Hz - 10 MHz)	<0,2 %	
Beam diameter (TEM00)	0,63 mm	
Beam divergence (TEM00)	1,3 mrad	
Warm-up time to achieve stable operation	≤10 min	
Frequency control: Frequency stability 1min/ 1h/ 24h relatively or absolutely after 40 min warm-up Amplitude stability t 1 min/ 1 h	 $\pm 2 \cdot 10^{-9}$/ $\pm 2 \cdot 10^{-9}$/ $\pm 5 \cdot 10^{-9}$ ca. ±1 MHz/ ±1 MHz/ ±2,5 MHz <1 %/ <2 %	
Amplitude control: Amplitude stability 1 min/ 24 h	 <0,2 %/ <0,5 %	none -
Max. tolerated optical feedback	$<1 \cdot 10^{-4}$	
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 Electronics unit	 Ø45 mm x 314 mm 172 mm x 60 mm x 230 mm	
Mass: Laser head Electronics unitt	 900 g 1.600 g t	
Internal thread	1˝-32 (C-Mount)	
Length of cable connecting laser head and electronics unit	2 m	
Electrical daten		
Power supply	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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