

Single Longitudinal Mode Laser

Specifications

Model Number	SLM-IR1047-800-DB
Optical Specifications	
Wavelength	1047 nm
Center Wavelength Deviation	+/- 1 nm
Output Power	< 800 mW
M ²	< 1.6
Longitudinal Mode	Single
Transverse Mode	TEM00
Power Stability (over 4 hours) (rms)	< 5 % (optional: < 1%, < 3%)
Operating Mode	CW
Beam Diameter at the Aperture (1/e ²)	< 2.0mm
Spectral Linewidth	< 0.00001 nm
Coherent Length	> 50 m
Noise of Amplitude (rms, 1Hz-20MHz)	< 0.5 %
Beam Divergence (Full Angle)	< 1.6 mrad
Warm-up time	< 12 minutes
Pointing Stability after Warm-up	< 0.05
Beam Height from Base Plate	27.5 mm
Working Temperature	15 to 35 ° C
Cooling Mode	TEC / FANS
Estimated Lifetime (MTTF)	10000 hours
Warranty Time	1 year
Mechanical Specifications	
Dimension of Laser Head	197 (L) x 70 (W) x 50 (H) mm
Dimension of Power Supply	236 (L) x 145 (W) x 104 (H) mm
Dimensional Tolerances	+/- 1 mm