

HLU32F400-980

HIGH-POWER DIODE LASER

LIMO
Lissotschenko Mikrooptik



Optical data

CW – output power (W)	> 32
Centre wavelength λ (nm)	975 – 980 ¹
Tolerance of λ (nm)	± 10 (3) ²
Spectral width (FWHM) (nm)	< 5 (4) ²
Temperature drift of λ (nm/K)	~ 0.4

Fibre data

Fibre core diameter (μm)	400
Numerical aperture	0.22
Fibre-optic connector	SMA905

Electrical data

Typical operation current (start of lifetime) (A)	43
Max. Operation current (start of lifetime) (A)	50
Max. Operation current (end of lifetime) (A)	60
Typical threshold current (A)	6
Typical efficiency (%)	40
Typical slope efficiency (W/A)	0.9
Operation voltage (V)	< 2
Reverse voltage	0

Optional Pilot beam

Pilot beam output power (mW)	> 1
Pilot beam wavelength (nm)	635 \pm 5
Pilot beam voltage (V)	3-5
Pilot beam current (mA)	< 120

Optional Monitor diode

Operation voltage (V)	5
Monitor diode signal (VDC)	2

Thermal conditions

Operation temperature ($^{\circ}\text{C}$)	+15....30
Storage temperature ($^{\circ}\text{C}$)	-20....+60
Recommended heat sink capacity (W)	> 80
Recommended heat sink thermal resistance (K/W)	< 0.1

Other specifications

Expected lifetime ³ (hours)	20,000
Warranty (years)	1
RoHS 2002/95/EC compliant	yes
Dimensions of laser head (connectors not included) (mm)	75x25x18
Weight laser head (g)	300

¹Other wavelength on request

²Optional

³According ISO 17526:2003(E)

LIMO-Lissotschenko Mikrooptik GmbH
Bookenburgweg 4-8 • 44319 Dortmund • Germany
Phone +49-231-22241-300 • Fax +49-231-22241-301 •
www.limo.de • sales@limo.de

LIMO-Lissotschenko Microoptic
530 Means Street • Suite 120 • Atlanta • GA 30309
Phone: +1-404-586 6860 • Fax: +1-404-586 6820 •
www.limo-microoptic.com • sales@limo microoptic.com

