

info@monocrom.com

C. Vilanoveta, 6 08800 Vilanova i la Geltrú Barcelona | Spain **V**

Telf.: +34 938 149 450 Fax.: +34 938 143 767 www.monocrom.com









| | LB-64A01-19YCW GENERAL TECH SPECIFICATIONS |
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| Product Reference (according to type of diode) | Single Bar mounted; 64: Wavelength 640nm, A: Water cooling; YCW: QCW or CW operation With or without fast and/or slow axis collimation. LB-64A01-19YCW |
| N° of emitters in the laser bar | 19 |
| Laser Bar geometry | 0,42 cm wide 20% fill factor emitter size: 40 μm emitter spacing: 200 μm |
| Fill factor | 20% |
| Center wavelength @ 20°C | 640 ± 3nm |
| Max. peak power | 8W -CW 15W-QCW |
| Operation current (for max. power), typ. | 11A- CW 18A -QCW |
| Threshold current, typical | 3A |
| Pulse length, QCW ⁽¹⁾ | Up to hundred of milliseconds |
| Duty cycle (DC), QCW ⁽¹⁾ | <50 % QCW |
| Wavelength Temp.Coefficient, typ. | 0,27-0,3 nm/ºC |
| Thermal resistance ⁽²⁾ | 0,3-0,6 °C/W |
| Smile | < +/- 0,3 μm |
| Voltage @ lop | (1,8-2,5 V) (Base to + voltage) |
| ∆٧/١ | 10 mV/A |
| Beam divergence FWHM, typical | Typical high divergence without collimation optics (~40°-fast axis; 10°-slow axis) |
| Beam divergence with FAC or FSAC | -FAC: FA(3-6mrad), SA 10° -FSAC: FA(3-6mrad), SA (2-4°) |
| Cooling | TAP water (distilled water with 5% ethylenglycol is recommended) |
| Water pressure | 2-3 bars |
| Water flow | >0,3 l/min |
| Operation temperature ⁽³⁾ | <25°C. If wet atmosphere, T>15°C is recommended |
| Water connections | Below or behind (Water flow outlet for Ø3m tube) |
| Water tubes, typical | Rigid tube Øint.2mm / Øext.3mm |
| Electrical connections, typical | On the top (Threads M2,5mm) or behind (Fast connectors- Pin Ø2x10mm, or threads M2mm) |
| Laser class product (EN-60825) | 4 |
| Expected lifetime | 10.000 hours CW 10 ⁹ shoots QCW tp<1ms 10 ⁸ shoots QCW tp>1ms |



- 1) Higher values also available for lower operation current
- 2) These values depend on the model of mounting
- 3) Optic Power Pop is specified at 20°C. According to the laser bar qualification, the power decreases 5% with T.

Device sensitive to ESD & dust contamination => Handling under clean area conditions advised.

Parametrical and dimensional specifications can be modified upon request.

