The ML20-CW-P-OEM-OTS Module is a compact CW Fibre Laser delivering up to 20W of output power, through a near diffraction limited linear polarized beam ($M^2<1.1$). The narrow linewidth of the ML20-CW-P-OEM-OTS makes this laser unique and optimized light source for all optical tweezing applications. The excellent beam quality and power stability make the Manlight Fibre Laser a multi-purpose tool. Our patented “Injection Technology” allows the use of highly reliable broad area laser diode pumps, for a cost-effective and maintenance-free operation. The all-fibre design guarantees the robustness of the laser, without any optical parts to align or to stabilise. Designed under the proprietary „EPL“ technology (Exchangeable Pump Laser), there is no need to send back the ML20-CW-P-OEM-OTS to Manlight for maintenance as one can make the swap of the pump diode very easily. Maintenance and lifetime of the product is no more an issue. The simple integration of the system requires no after-installation service. The ML20-CW-P-OEM-OTS is the ideal solution for a broad range of industrial applications.
**Options:**
- Variety of fibre lengths
- Different collimation optics
- Back reflection output isolator
- Variety of output terminations
- Customised specs on request
- “REMO” Remote control unit
- Extended warranty
- 12 V power supply
- RS232 control

**Operating and safety considerations**
Manlight Fibre Amplifiers comply with CE, FDA & RoHS. All Manlight Fibre Lasers are patent pending. The Manlight Fibre Amplifiers emit both invisible Class IV and visible Class II radiations. Direct and scattered radiation can be harmful to the human eye. Proper laser safety eyewear must be worn during operation. Information in this document is subject to change without notice.

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**Parameter** | **Value** | **Unit**
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Operation mode | CW - modulated | -
Nominal output power | 20 | W
Output power tunability | 10 – 100 | %
Long term stability (RMS, over 1h@20°C) | +/- 2 | %
External TTL modulation frequency | Up to 5.0 | kHz
Laser wavelength | 1060 – 1100 | nm
Emission bandwidth (FWHM) | < 0.25 | nm
Polarization | Linear | -
PER (Polarization Extinction Ratio) | > 15 | dB
Laser output configuration | Gaussian profile | -
Output fibre length | 3 | m
Typical beam diameter @1/e² | 2.2 | mm
Beam quality M² | < 1.1 | -
Dimensions (heatsink included) | 285 x 215 x 120 | mm³
Weight (heatsink included) | < 10 | Kg
Storage / Operation Temperature | - 20 to + 60 / + 15 to + 40 | °C
Control interface | RS-232 | -
Operating voltage DC | 12 | V
Typ. power consumption (20W @ 25°C) | < 320 | W

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**Mechanical drawings:**

**Ordering Information:** ML20-CW-P-OEM-OTS
Product Code: 125

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