

Product specifications (preliminary)

Revision
Revision date

4
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| | | | |
|---|--|---------------------|---------|
| Model | UV-280-20 | | |
| Optical characteristics | | | |
| | Min. | Typ. | Max. |
| Central emission wavelength | 279 nm | 280 nm | 281 nm |
| Spectral width | | | 100 MHz |
| Polarization state | Linear, horizontal orientation | | |
| Polarization extinction ratio | 25 dB | | |
| Continuous wave output power | 20 mW | | |
| Power stability over 8 hours, temperature variation of $\pm 3^{\circ}\text{K}$ | | $\pm 2\%$ p-to-p | |
| Beam characteristics | Monomode collimated beam | | |
| Beam waist diameter ($1/e^2$), at 50mm from output aperture | | 0,3 mm | |
| Beam divergence at $1/e^2$, full angle, in far field | | 1,5 mrad | |
| Beam quality factor (M^2) | | 1.3 | 1.4 |
| [OPTION] Telescope (embedded) | x 2 / x 2.7 enlargement | | |
| Beam waist diameter ($1/e^2$), at 50mm from output aperture | | 0,6 mm / 0.8 mm | |
| Interfaces, peripherals and environment | | | |
| Technology | External monolithic resonant cavity | | |
| Interface | USB | | |
| Laser driver | Present | | |
| Start-up time | | | 15 min. |
| Supply voltage, AC | 115 V | | 230 V |
| Power consumption | | | 70 W |
| Cooling method, laser head laser driver | Conduction via base plate Conduction via base plate | | |
| Operating temperature, measured on the base plate | 20 °C | | 40 °C |
| Dimensions (L x W x H), laser head laser driver | 200 x 150 x 80 mm ³ 140 x 200 x 80 mm ³ | | |