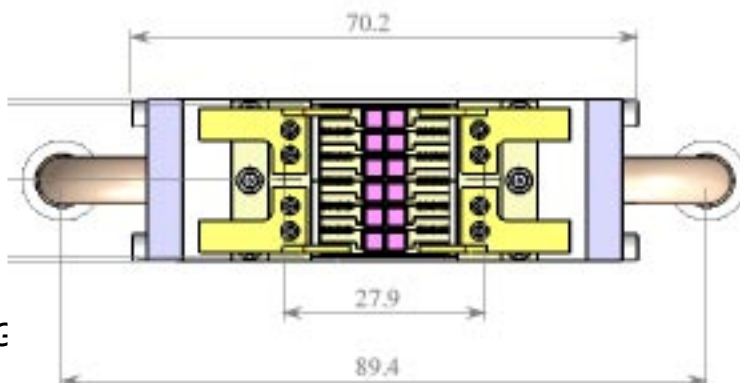


Multichip VCSEL Array Module(480W-QCW) Part # PQCW-MC-480-W0808

- Vertical-Cavity Surface-Emitting Laser technology
- Twelve 40W QCW chips mounted together total QCW power 480W
- Duty cycle to 25%
- 808nm wavelength
- Stackable in one direction
- Custom wavelengths available (808-1064nm)
- Applications– Side pumping of Nd:YAG laser (QCW)



Optical & Electrical Characteristics

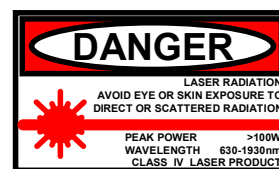
| PARAMETER | CONDITIONS | MIN | TYP | MAX | UNIT |
|-------------------------|----------------|-------|-------|-------|-------|
| QCW Output Power | 90A, 20C Water | 480 | 520 | -- | W |
| Threshold current | 20C | -- | 8 | 12 | A |
| Operating current | 480W, 20C | -- | 75 | 90 | A |
| Operating voltage | 480W, 20C | -- | 17.6 | 22 | V |
| Differential resistance | 20C | -- | 113 | 150 | mΩ |
| Center wavelength | 480W, 20C | 805 | 808 | 811 | nm |
| Spectral width (FWHM) | 480W, 20C | -- | 1 | 3 | nm |
| Wavelength shift | 20C | 0.060 | 0.065 | 0.070 | nm/°C |
| Divergence (half angle) | 480W, 20C | -- | 0.15 | 0.2 | rad |

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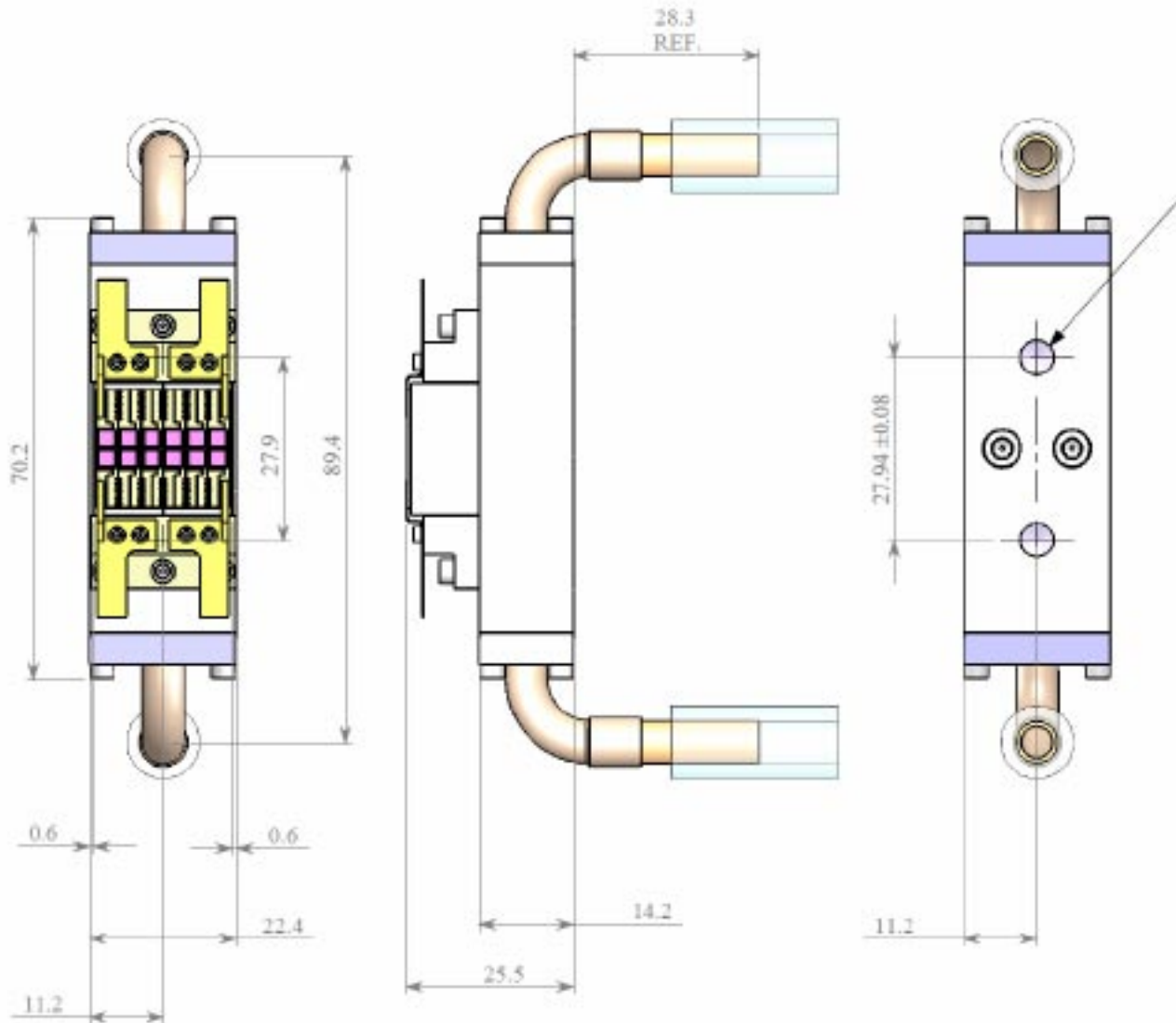
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Laser diode product components are intended for use in a user-devised end system. However, these products are capable of emitting Class IV radiation. Extreme care must be exercised during their operation. Only persons familiar with the appropriate safety precautions should operate a laser product. Directly viewing the laser beam or exposure to specular reflections must be avoided. Serious injury may result if any part of the body is exposed to the beam. The eye is extremely sensitive to the infrared radiation and therefore, proper eye-wear must be worn at all times. Use of optical instruments with these products may increase eye hazard. Always wear eye protection when operating.



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Module Dimensions

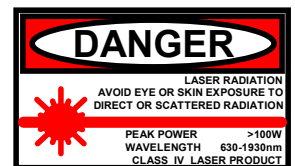


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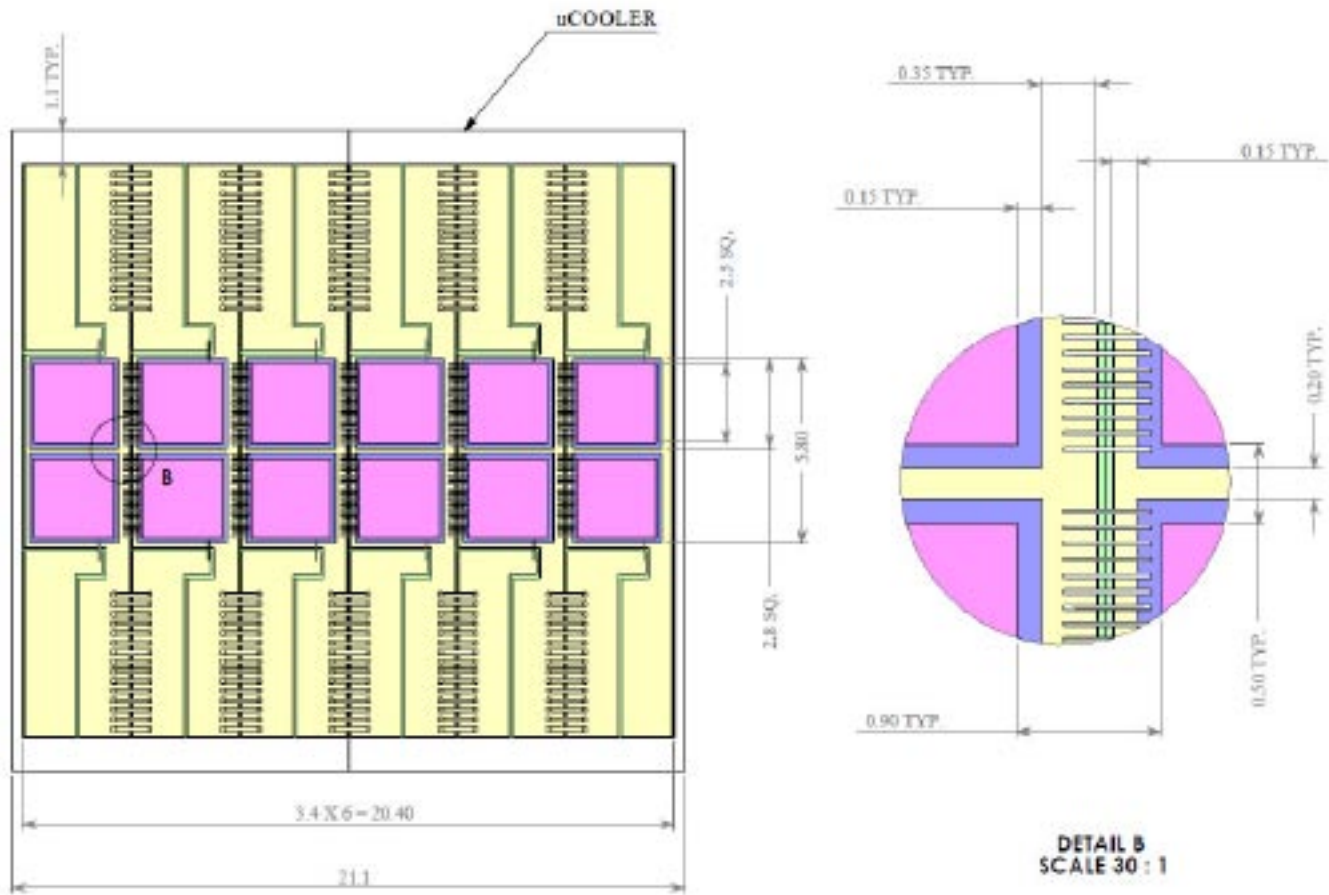


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Module Dimensions

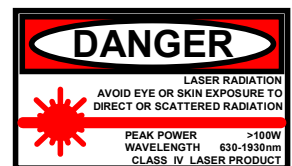


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