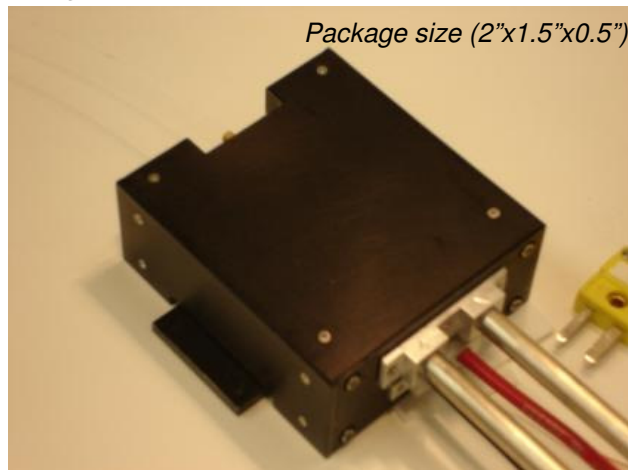


**Fiber Coupled VCSEL Array Module (70W)**  
**Part # PCW-M10-70-W0808**  
**(Preliminary)**

- Vertical-Cavity Surface-Emitting Laser technology
- Power output of 70W from 1mm/0.4NA fiber
- CW, pulse and QCW operation
- Custom wavelengths available (808-1064nm)



**Optical & Electrical Characteristics**

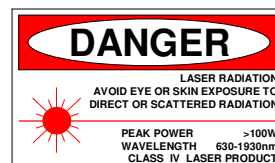
| PARAMETER               | CONDITIONS          | MIN   | TYP   | MAX   | UNIT  |
|-------------------------|---------------------|-------|-------|-------|-------|
| CW Output Power         | 110A, 25C Heat-sink | 70    | 80    | --    | W     |
| Threshold current       | 25C Heat-sink       | --    | 10    | 15    | A     |
| Operating current       | 70W, 25C Heat-sink  | --    | 90    | 110   | A     |
| Operating voltage       | 70W, 25C Heat-sink  | --    | 2.5   | 3     | V     |
| Differential resistance | 70W, 25C Heat-sink  | --    | 5.8   | 7.0   | mΩ    |
| Center wavelength       | 70W, 25C Heat-sink  | 800   | 808   | 816   | nm    |
| Spectral width (FWHM)   | 70W, 25C Heat-sink  | --    | 0.8   | 1     | nm    |
| Wavelength shift        | 25C Heat-sink       | 0.060 | 0.065 | 0.070 | nm/°C |

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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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