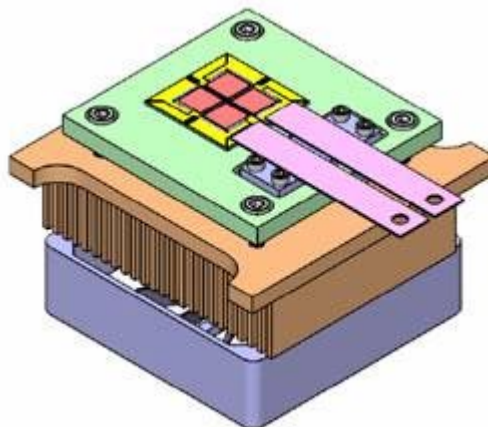


Multi-chip VCSEL Array Module (400W-QCW) Part # PQCW-TEC-400-W0808

- Vertical-Cavity Surface-Emitting Laser technology
- Four 100W QCW chips mounted in series totaling QCW power 400W
- 808nm wavelength
- Custom wavelengths available (808-1064nm)
- Applications: End-pumping of Nd:YAG laser (QCW)



Optical & Electrical Characteristics

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
QCW Output Power ⁽¹⁾	500A, 20C TEC	400	480	--	W
Threshold current	20C	--	14	20	A
Operating current	400W, 20C	--	100	125	A
Operating voltage	400W, 20C	--	11	20	V
Slope efficiency	20C	4	4.4	--	W/A
Differential resistance	20C	--	40	60	mΩ
Center wavelength	400W, 20C	804	808	812	nm
Spectral width (FWHM)	400W, 20C	--	1	3	nm
Wavelength shift	20C	0.060	0.065	0.070	nm/°C
Divergence (half angle)	400W, 20C	--	0.15	0.2	rad
Emission area	--	--	10.5 x 10.5	--	mm ²

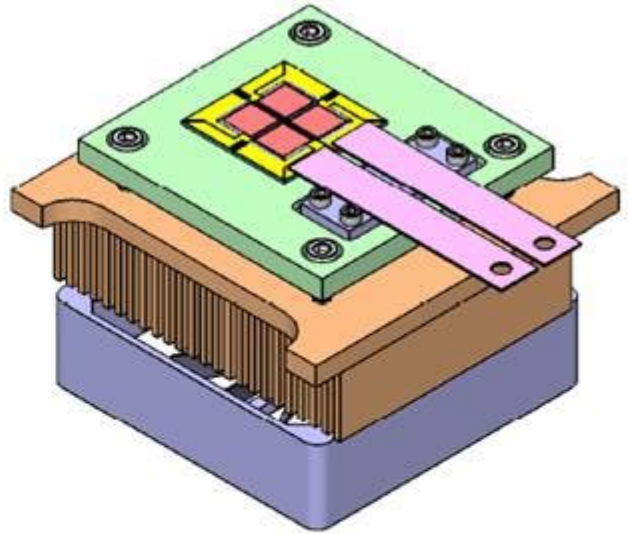
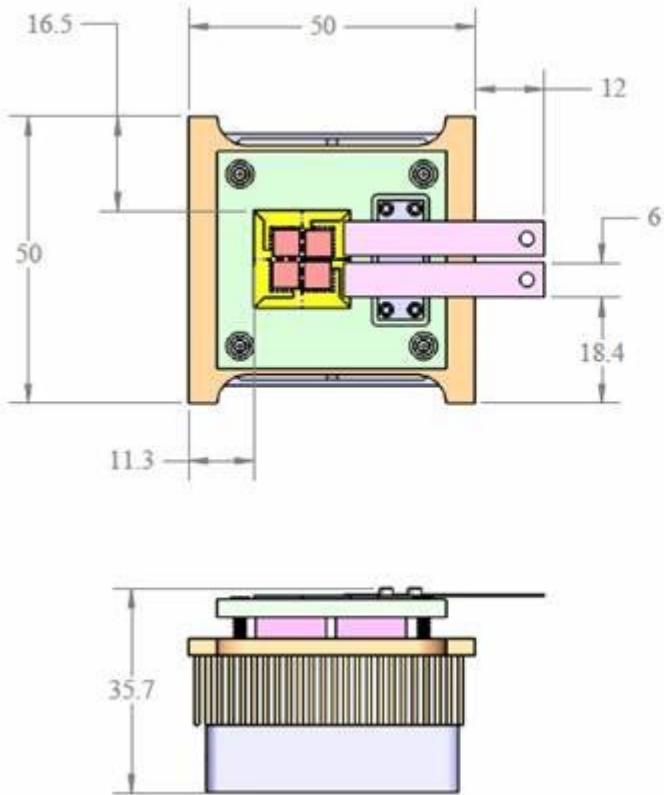
(1) 100micro-sec / 1% duty cycle

Ordering Information

PQCW – TEC – 400 – W0808

Package type _____ | _____ Wavelength (nm)
 | _____ QCW Output Power (W)

Mechanical Characteristics



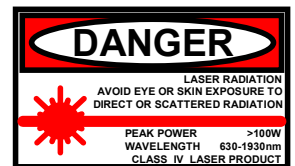
NOTE:
1. ALL DIMENSIONS: mm
2. COOLING: TEC AND FAN

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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.



REV. A – 05/10



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