

800W 808nm Multi-chip VCSEL Array on Micro-Channel-Cooler PQCW-EP-800-W0808

- Vertical-Cavity Surface-Emitting Laser technology
- Uniform pumping & reliable operation
- Simple packaging
- Four 200W QCW chips mounted together for a minimal total QCW power of 800W
- 808nm wavelengths, 250 μ s operation
- Custom wavelengths available(780-1100 nm)
- Applications: End pumping of Nd:YAG laser (QCW)



Optical & Electrical Characteristics

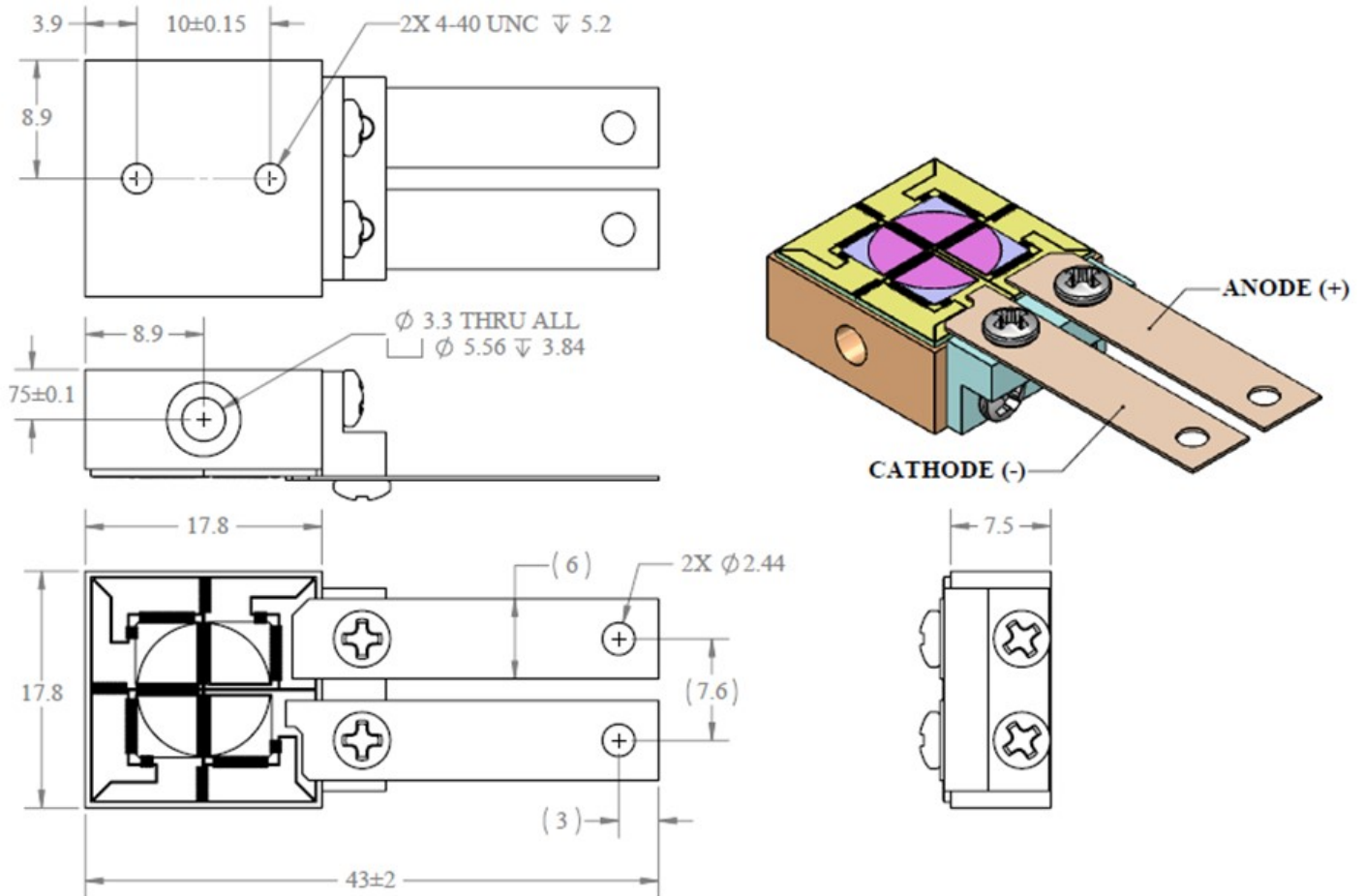
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
QCW Output power	250A, 20 °C Heat-sink	800	825	--	W
Threshold current	20 °C Heat-sink	--	20	30	A
Operating current	P _{out} , 20 °C Heat-sink	--	200	250	A
Operating voltage	P _{out} , 20 °C Heat-sink	--	11	20	V
Differential resistance	20 °C Heat-sink	--	22	30	mW
Center wavelength	P _{out} , 20 °C Heat-sink	802	808	811	nm
Spectral width (FWHM)	P _{out} , 20 °C Heat-sink	--	1	3	nm
Wavelength shift	20 °C Heat-sink	0.06	0.065	0.07	nm/°C
Divergence (Half Angle)	P _{out} , 20 °C Heat-sink	--	0.15	0.2	rad

Ordering information

PQCW – EP – 800 – W0808

Heat Spreader Type
QCW Output Power (W)
Wavelength (nm)

Mechanical Characteristics



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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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