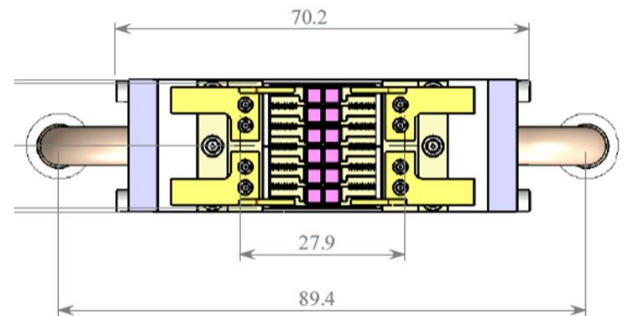


480W 808nm Multi-chip VCSEL Array on Micro-Channel-Cooler PQCW-MC-480-W0808

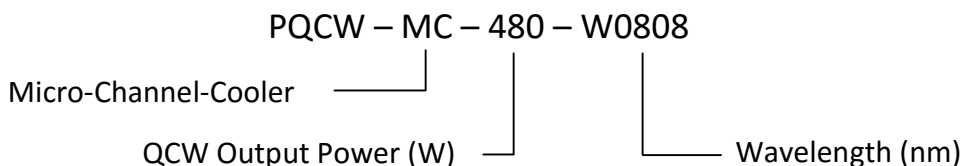
- Vertical-Cavity Surface-Emitting Laser technology
- Twelve 40W QCW chips mounted together totaling QCW power 480W
- Duty cycle to 25%
- 808 nm wavelength
- Stackable in one direction
- Custom wavelengths available (808-1064 nm)
- Applications - Side pumping of Nd:YAG laser (QCW)



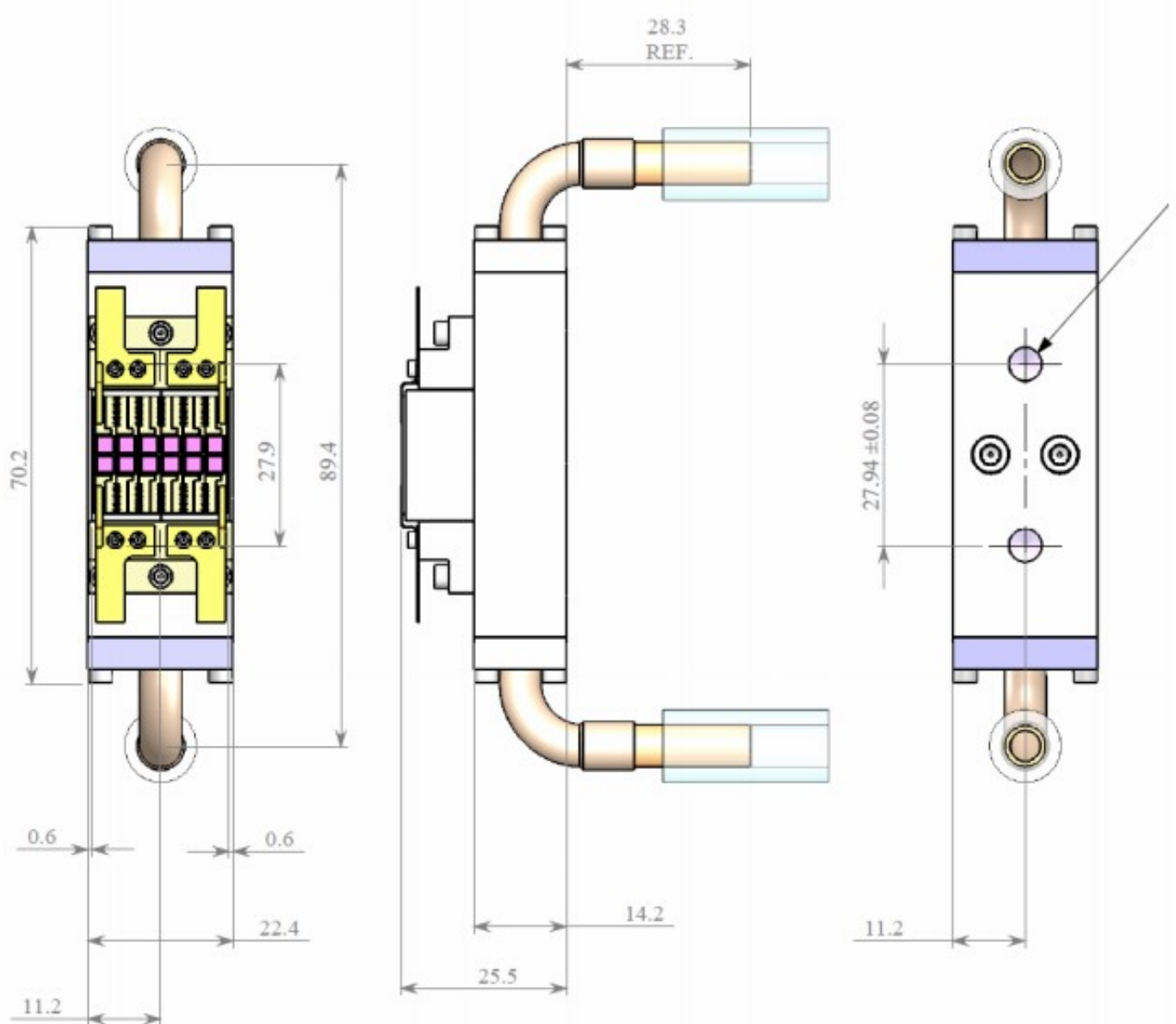
Optical & Electrical Characteristics

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
QCW Output power	90A, 20 °C Heat-sink	480	520	--	W
Threshold current	20 °C Heat-sink	--	8	12	A
Operating current	P_{out} , 20 °C Heat-sink	--	75	90	A
Operating voltage	P_{out} , 20 °C Heat-sink	--	17.6	22	V
Differential resistance	20 °C Heat-sink	--	113	150	mΩ
Center wavelength	P_{out} , 20 °C Heat-sink	805	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

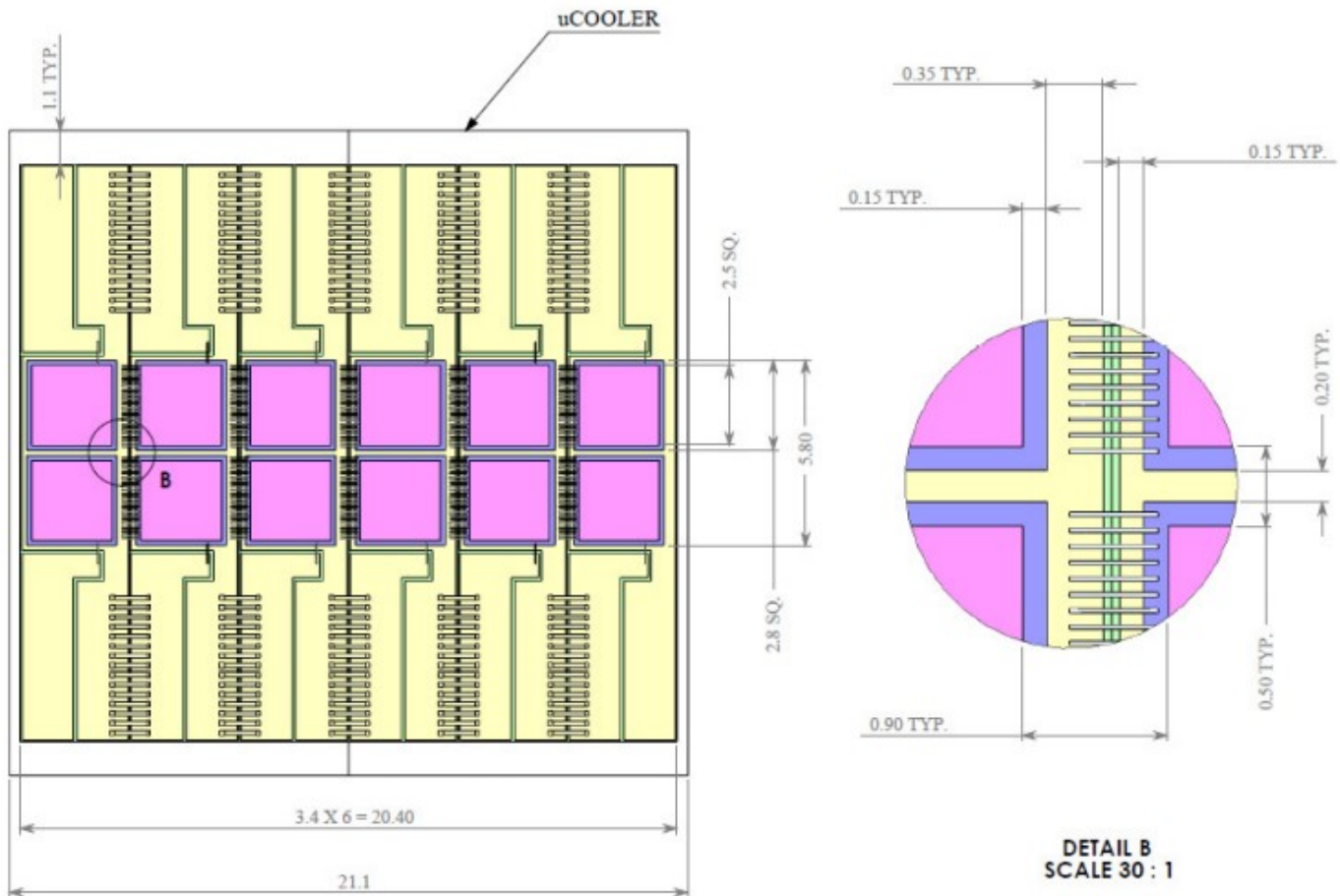
Ordering information



Module Dimensions



Module Dimensions



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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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