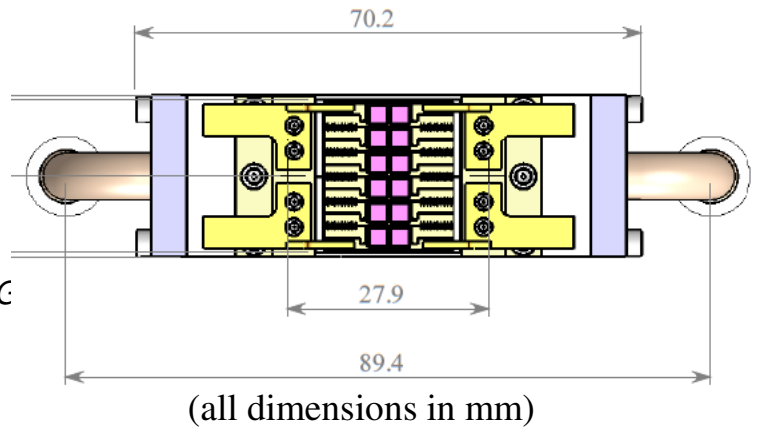


Multichip VCSEL Array Module(180W-CW) Part # PCW-MC-180-W0808

- Vertical-Cavity Surface-Emitting Laser technology
- Twelve 15W CW chips mounted together total CW power 180W
- 808nm wavelength
- Stackable in one direction
- Custom wavelengths available (808-1064nm)
- Applications– Side pumping of Nd:YAG laser (CW)



Optical & Electrical Characteristics

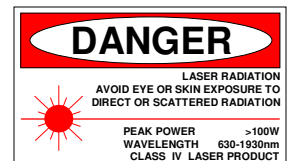
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
CW Output Power	40A, 20C Water	180	200	--	W
Threshold current	20C	--	8	12	A
Operating current	40A, 20C Water	--	31	40	A
Operating voltage	40A, 20C Water	--	13.0	16	V
Differential resistance	20C	--	120	150	mΩ
Center wavelength	40A, 20C Water	805	808	811	nm
Spectral width (FWHM)	40A, 20C Water	--	1	3	nm
Wavelength shift	20C	0.060	0.065	0.070	nm/°C
Divergence (half angle)	40A, 20C Water	--	0.15	0.2	rad

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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.

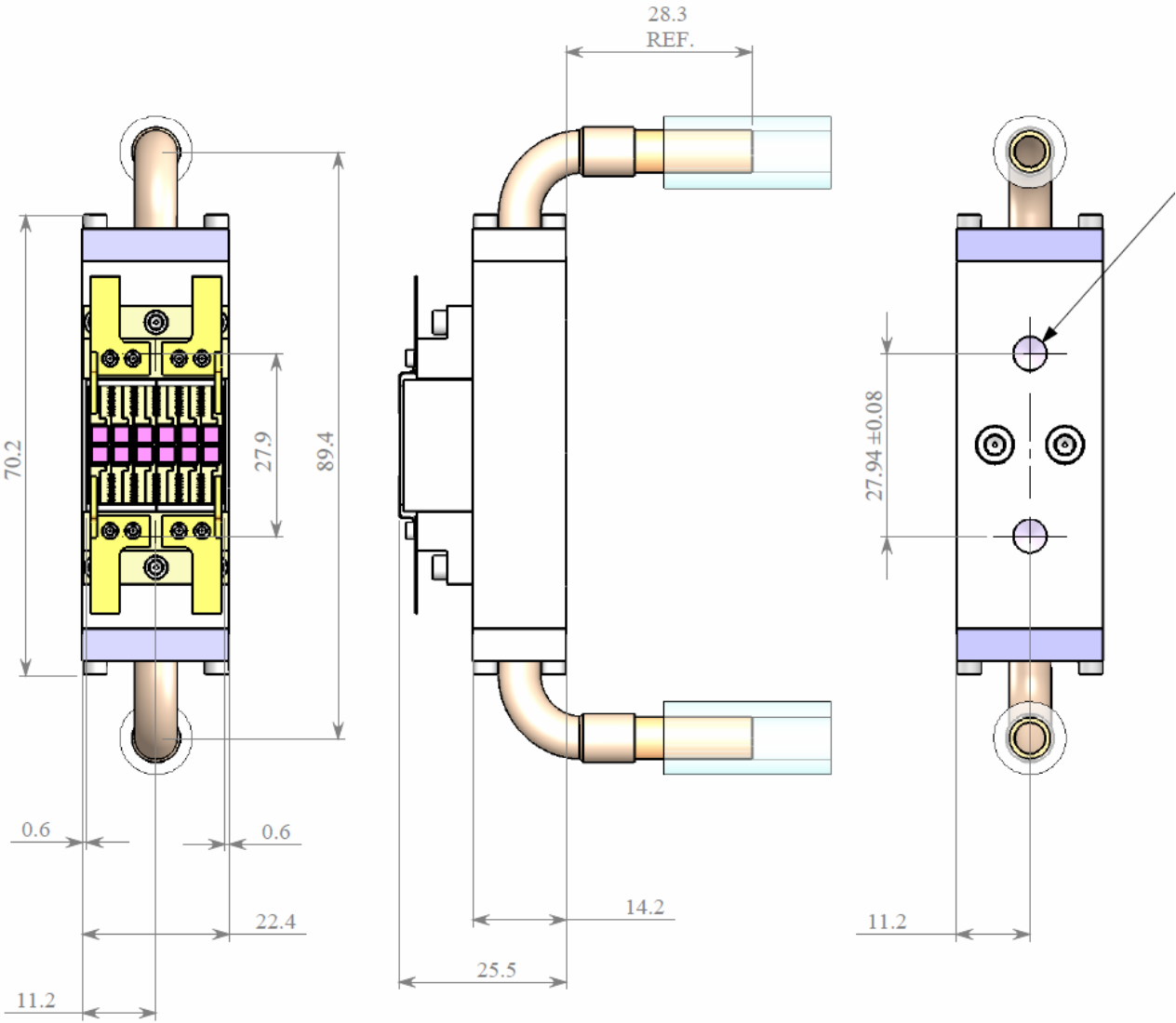


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Module Dimensions (in mm)

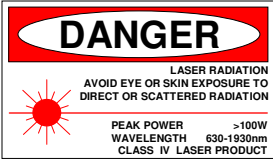


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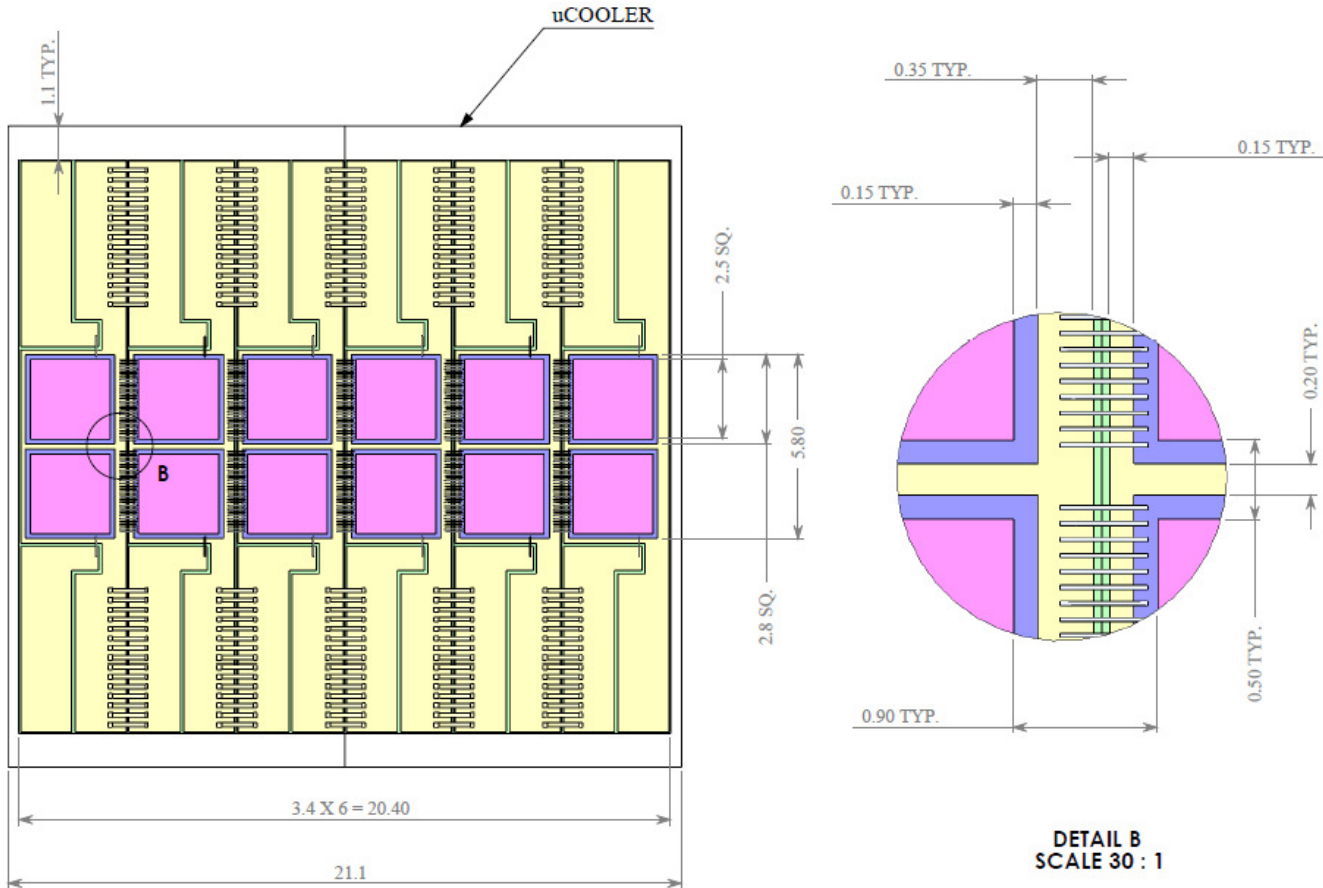


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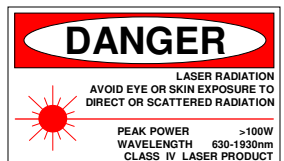


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