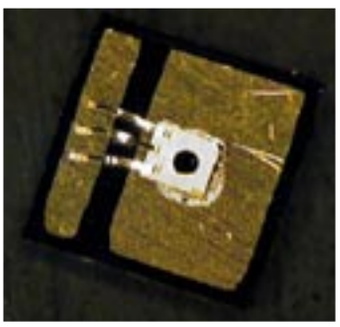
200mW Multi-Mode 808nm VCSEL Diode
Part # PCW-CS-200-W0808

- *Vertical-Cavity Surface-Emitting Laser technology*
- *>200mW CW multi-mode power at 808nm*
- *Circular, low-diverging beam*
- *Custom wavelengths available (808-1064nm)*
- *Custom packaging available (submount, C-mount, TO can)*
- *Applications: pumping, illumination*



Optical & Electrical Characteristics

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
CW Single-mode Power	270mA, 20C Heat-sink	200	250	--	mW
Threshold current	20C Heat-sink	--	34	65	mA
Operating current	200mW, 20C Heat-sink	--	220	270	mA
Operating voltage	200mW, 20C Heat-sink	--	2.2	2.7	V
Differential resistance	200mW, 20C Heat-sink	--	2.8	3.5	Ω
Slope efficiency	20C Heat-sink	0.9	1.1	--	W/A
Conversion efficiency	100mW, 20C	35	45	--	%
Center wavelength	200mW, 20C Heat-sink	800	808	816	nm
Wavelength shift	20C Heat-sink	0.060	0.065	0.070	nm/°C
Beam divergence (1)	200mW, 20C Heat-sink	--	0.15	0.2	rad
Emission area diameter	200mW, 20C Heat-sink	--	300	--	microns

(1) Half-width, $1/e^2$

Ordering information

PCW - CS - 200 - W0808

- Package type: CS=Chip-on-submount; CM=C-mount; TO=TO-can
- Wavelength (nm)
- CW Output Power (mW)

Princeton Optronics reserves the right to change product design and specifications at any time without notice.
No license is granted by implication or otherwise under any patents or patent right of Princeton Optronics.
No responsibility is assumed for the use of these products, nor for any infringement on the rights of others resulting from the use of these products

Laser diode product components are intended for use in a user-devised end system. However, these products are capable of emitting Class IIIB 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

株式会社 エム スクエア http://www.mxmco.com info@mxmco.com
〒101-0051 東京都千代田区神田神保町1-34-2F TEL(03)3294-0560 FAX(03)3294-0563
〒815-0041 福岡市南区野間1-10-18 TEL(092)554-6800 FAX(092)554-6802