



**6W CW 975nm VCSEL Module, 400 μ m/0.44NA Fiber
Part # PCW-M04-6-W0975
(Preliminary)**

- *Vertical-Cavity Surface-Emitting Laser technology*
- *400 μ m/0.44NA fiber*
- *Very high reliability, can operate at high temperatures (up to 80 °C)*
- *Wavelength stabilized & narrow spectral width (<1nm)*
- *Easily soldered to heat exchanger*

Optical & Electrical Characteristics

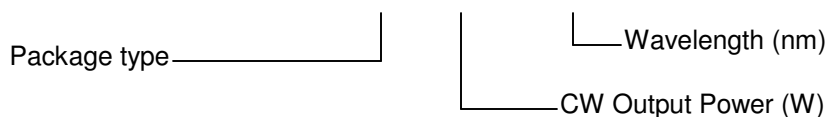
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
CW Output Power	12A, 20C Heat-sink	6	8	--	W
Threshold current	20C Heat-sink	--	0.7	1.5	A
Operating current	6W, 20C Heat-sink	--	10	12	A
Operating voltage	6W, 20C Heat-sink	--	2.1	2.5	V
Differential resistance	6W, 20C Heat-sink	--	40	45	m Ω
Slope efficiency	20C Heat-sink	0.8	0.9	--	W/A
Center wavelength	6W, 20C Heat-sink	960	975	990	nm
Spectral width (FWHM)	6W, 20C Heat-sink	--	0.8	1	nm
Wavelength shift	20C Heat-sink	--	--	0.070	nm/°C

Maximum Absolute Ratings

PARAMETER	CONDITIONS
Forward current	20A
Reverse current	25 μ A
Operating temperature	0 to +80 °C
Storage temperature	-40 to +80 °C

Ordering information

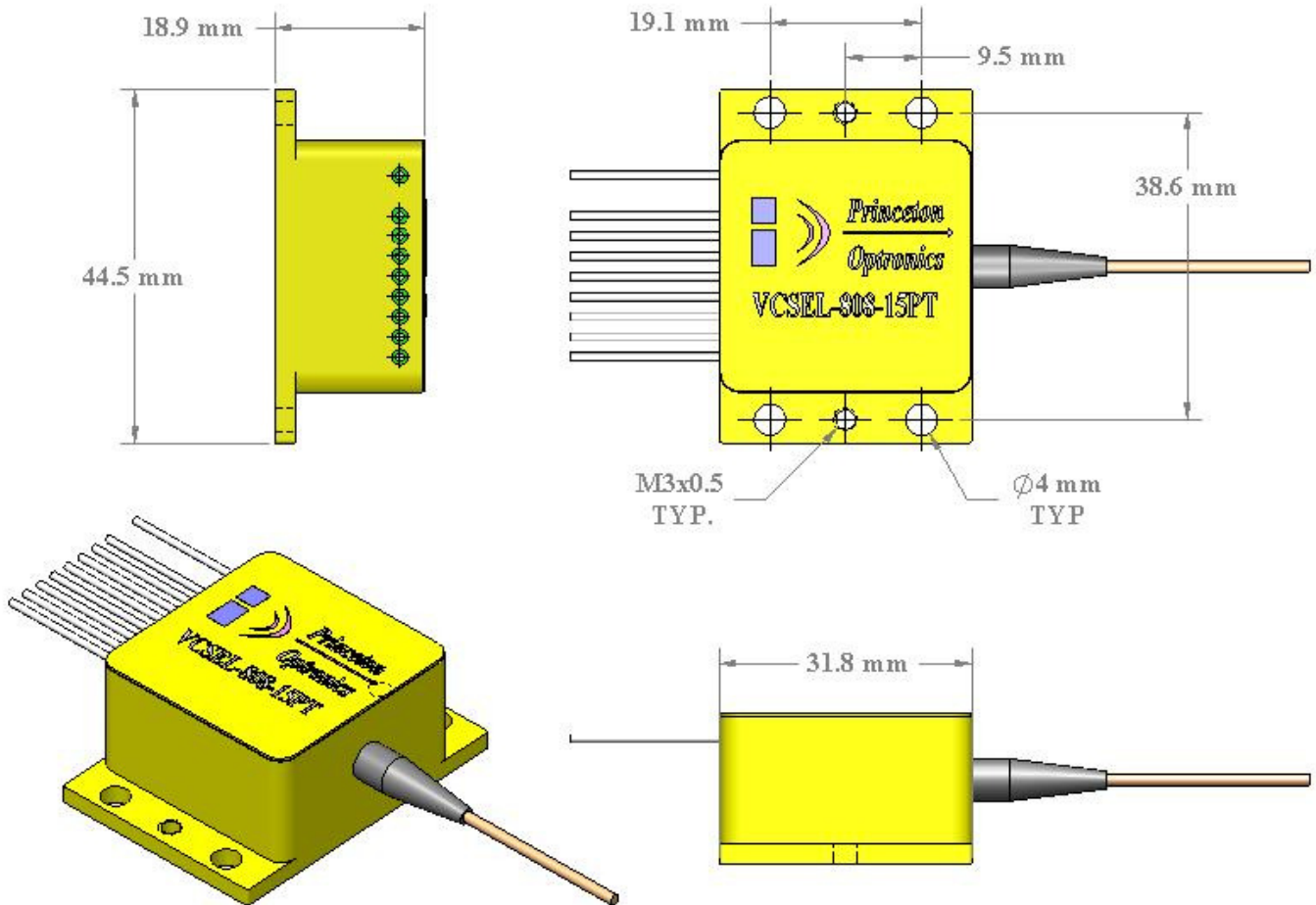
PCW - M04 - 6 - W0975



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Mechanical Characteristics

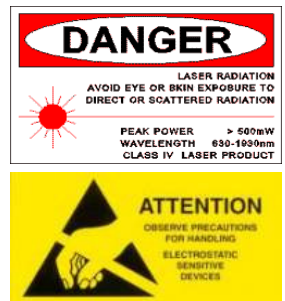


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Laser diode product components are intended for use in a user-devised end system. However, these products are capable of emitting Class IV radiation. Extreme care must be exercised during their operation. Only persons familiar with the appropriate 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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