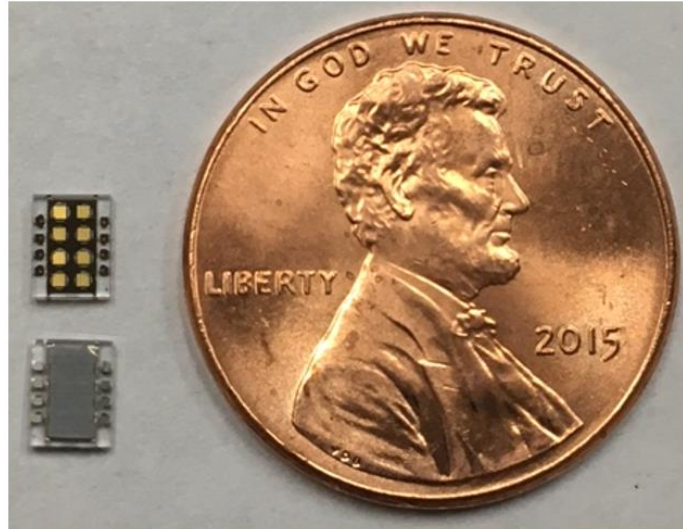


20mW Multiwavelength, Multi-chip VCSEL Package PQCW-ODFN-020-MWL01



- Vertical-Cavity Surface-Emitting Laser technology
- Very high reliability
- Wavelength stabilized & narrow spectral width
- Uniform emission & illumination
- Emits 688nm, 785nm, 808nm, 830nm, 860nm, 915nm, 975nm, and 1064nm wavelengths with others available upon request

Optical & Electrical Characteristics By Array

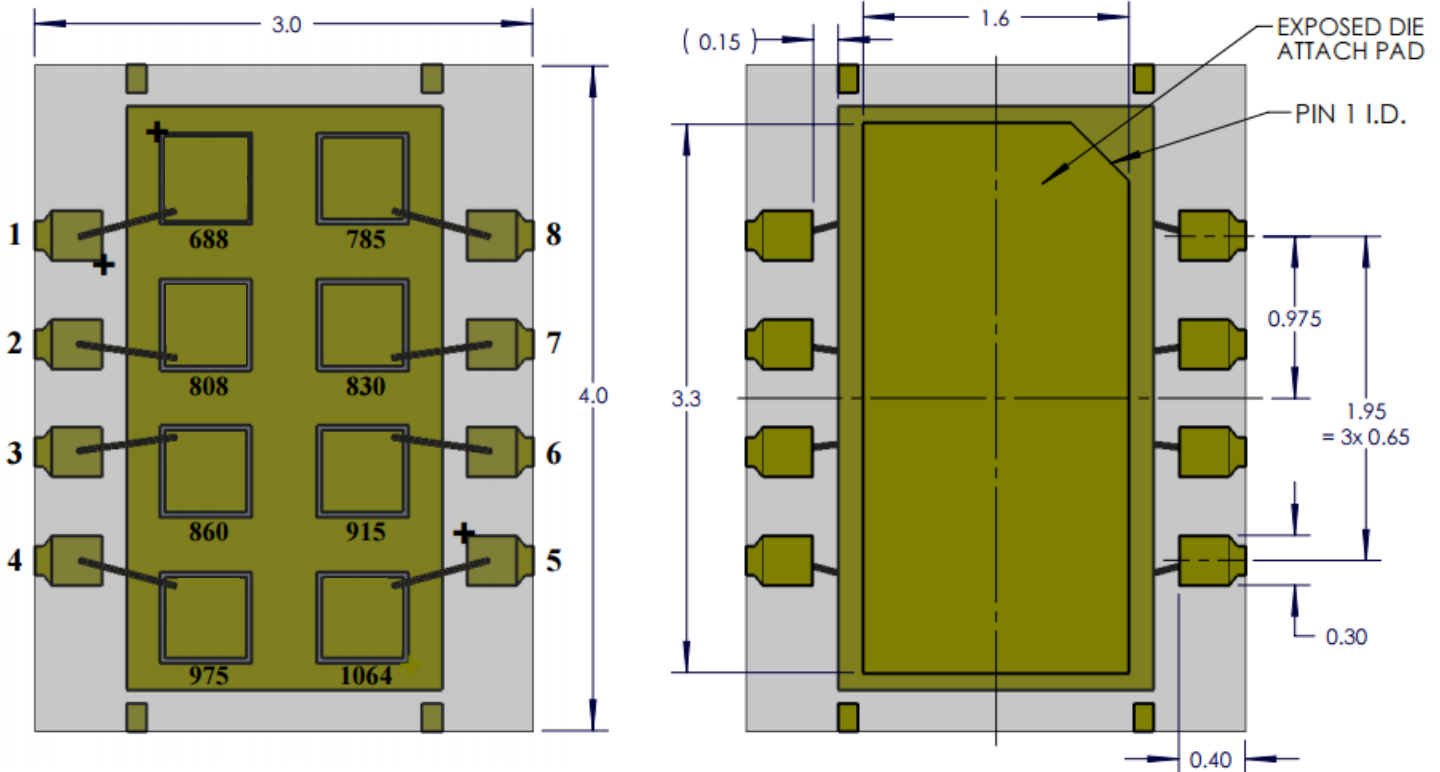
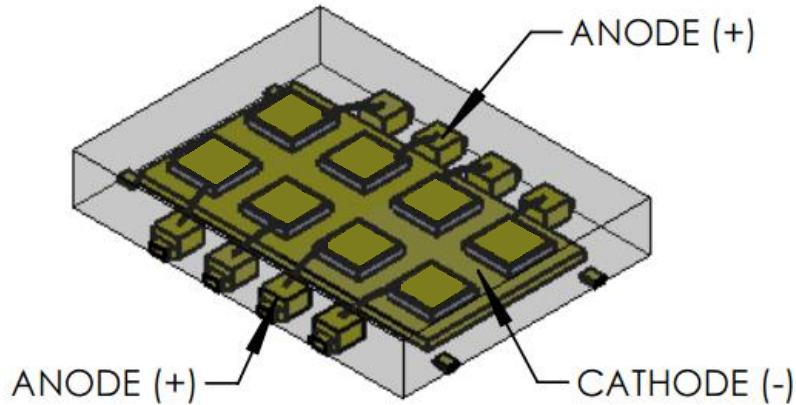
PARAMETER	CONDITIONS	Typical Value for Array by Wavelength (nm)								UNIT
		688	785	808	830	860	915	975	1064	
CW Output power	I_{op} , 20°C Heat-sink	20	50	70	70	80	50	50	60	mW
Threshold current	20°C Heat-sink	0.02	0.02	0.01	0.02	0.01	0.03	0.03	0.03	A
Operating current	P_{OUT} , 20°C Heat-sink	0.06	0.07	0.07	0.08	0.06	0.10	0.10	0.10	A
Operating voltage	P_{OUT} , 20°C Heat-sink	2.1	2.0	2.1	2.0	1.9	1.7	1.7	2.0	V
Differential resistance	P_{OUT} , 20°C Heat-sink	4.8	5.7	8.4	5.8	7.6	3.4	4.3	6.6	Ω
Slope efficiency	20°C Heat-sink	0.49	0.77	0.91	0.96	0.95	0.81	0.70	0.86	W/A
Conversion efficiency	P_{OUT} , 20°C Heat-sink	15.2	26.4	36.6	36.7	41.3	29.9	29.0	31.2	%
Wavelength shift	20°C Heat-sink	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	nm/°C

Ordering Information

PQCW – ODFN – 020 - MWL01

Heat Spreader Type _____ Multiwavelength package
 _____ QCW Output Power (mW)

Mechanical Characteristics

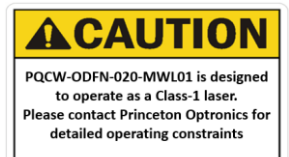


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Laser diode product components are intended for use in a user-devised end system. However, these products are capable of emitting Class IV radiation. Extreme care must be exercised during their operation. Only persons familiar with the appropriate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



REV.A – 01/17