Product Selector Guide

(see www.vixarinc.com/products for detailed specifications)

	Output		
Wavelength	Power ("	Part Number ⁽²⁾	Notes
Single Mode VCSELs (single aperture)			
670-690 nm	0.7 mW	680S-0000-x0y1	Line Width ≤ 0.1nm
670-690 nm	0.7 mW	680Q-0000-x0y1	0.4 nm ≤ Line Width ≤ 1.2 nm
790-800 nm	0.15 mW	795S-0000-x0y1	Wavelength tolerance: ± 2.0 nm
795 nm	0.15 mW	795S-0000-x0y2	Wavelength tolerance: ± 0.5 nm
795 nm	0.15 mW	795S-0000-xCy1	Integrated TEC for wavelength tolerance: ± 10 pm
Single Mode VCSELs (arrays)			
670-690 nm	0.7 mW ⁽³⁾	680Q-0000-xAy1	1x4 (4 apertures)
Communications Grade VCSELs (single aperture)			
670-690 nm	3.5 mW	680C-0000-x0y1	Up to 3 Gbps
Multi-mode VCSELs (single aperture)			
670-690 nm	6 mW	680M-0000-x0y1	
787-797 nm	3 mW	795M-0000-x0y1	
850 nm	1.3 mW	850M-0000-xCy1	Integrated MPD & Temp. Sensor for constant output power
Multi-mode VCSELs (arrays)			
670-690 nm	2.5 mW ⁽³⁾	680M-0000-xAy1	2x8 (16 apertures)
670-690 nm	30 mW ⁽⁴⁾	680M-0000-xPy1	4x4 (16 apertures)
Multi-Wavelength VCSEL Assemblies			
680, 795, 850 nm	1 mW	MULTM-0000-x0y1	High efficiency
680, 795, 850 nm	8 mW	MULTM-0000-x0y2	High Power

At 25°C and 75% of Peak Output Power at room temperature.

(2) "x" and "y"denote the character positions of options explained in the respective datasheets.

(3) Output Power of each of the multiple apertures, which are modulated independently.

(4) This product is a "power array" in which all apertures are electrically connected and modulated together.



Contact Information Vixar Headquarters 2950 Xenium Lane Plymouth, MN 55441 Phone 763-746-8045 Fax 763-746-8048

Wade Campbell, VP Bus. Dev. 763-746-8045 x 305 602-330-4653 (mobile) wcampbell@vixarinc.com www.vixarinc.com

Vixor

Red VCSEL Technology Today

- Visible to near IR
- Extremely Narrow Spectral Bandwidth
- Very Low Power Consumption
- Highly Polarized, Round Beam
- Discrete 1D and 2D Arrays
- TO, Ceramic or Plastic SMT Packages

Vixor

Single or Multimode

Applications

- Medical sensors
- Analytical/diagnostic equipme
- Bar code scanners
- Laser scanning units
- Industrial sensing
- Atomic clocks/sensors
- Polymer Optical Fiber (POF) Communications

