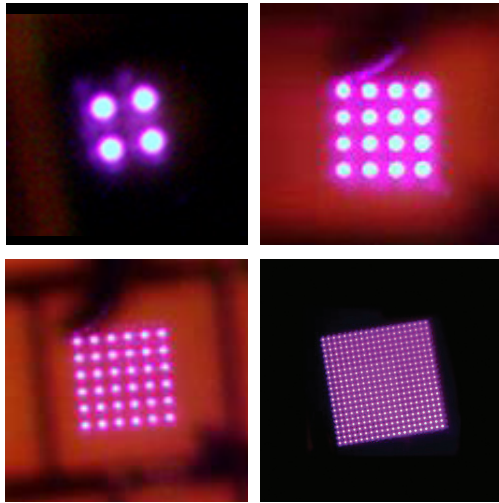


VCSEL ARRAYS



From the world's leading producer of laser diodes, Lasertel's VCSEL arrays are a new generation of laser diodes for a range of structured light and illumination applications in the automotive and consumer electronics industries.

KEY FEATURES:

- Up to 4600W/cm²
 - Circular shaped beam output
 - Ultra low wavelength-temperature sensitivity
 - Fast modulation capability
 - Low speckle
-



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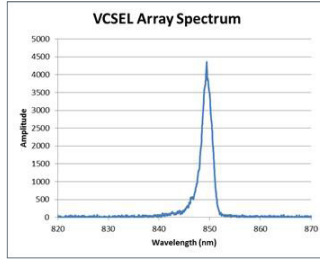
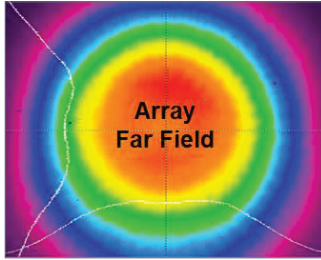
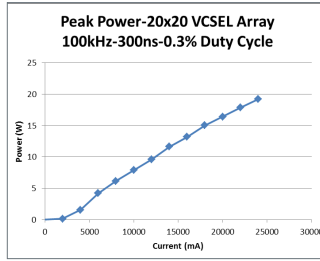
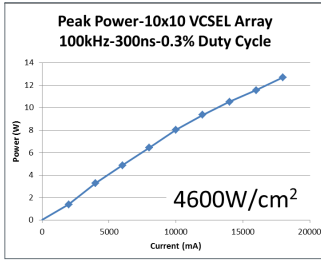


Lasertel Products Proudly Made in the USA

We are ISO 9001:2008, ISO 13485:2003 and AS9100C Certified.

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VCSEL ARRAY TYPICAL PERFORMANCE:



TYPICAL SPECIFICATIONS:

TYPICAL OPTICAL PARAMETERS (@20 °C)	UNITS	VALUE	
		CW	Pulsed
Operating Mode		CW	Pulsed
Wavelength Selection Range/Tolerance*	nm	800-980 ±5nm	800-980 ±5nm
Output Power*	W	up to 10	up to 500
Current Modulation Bandwidth	MHz	n/a	100
Pulse Width	ns	n/a	> 10
Beam Full Divergence (1/e ²)	Deg	< 20 (circular)	< 20 (circular)
Spectral Width (FWHM)	nm	< 3nm	< 3nm
Electro Optical Efficiency	%	45	45
VCSEL Array Size*		Custom Design	Custom Design
Packaging*		Chip only or packaged	Chip only or packaged
THERMAL PARAMETERS			
Operating Temperature	°C	-30/+60	-30/+60
Wavelength Coefficient	nm/°C	0.07	0.07

* Custom Design Available

Patent Numbers: US 7,660,335 | US 7,864,825 | US 6,352,873 | US 6,295,307

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