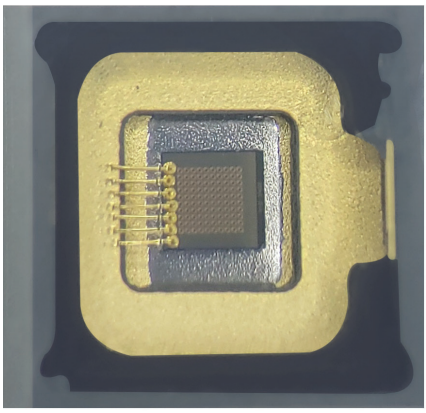
LASERTEL

VCSEL

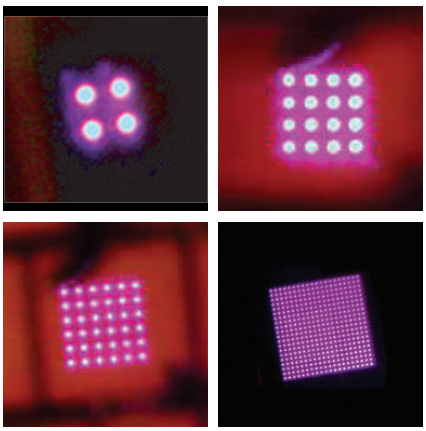
Laser Diode Arrays

Lasertel's Vertical Cavity Surface Emitting Laser arrays (VCSEL) are a new generation of laser diodes. Applications include illumination, structured light and pumping of solid state lasers. VCSELs are particularly well suited for high volume automotive lidar applications.



KEY FEATURES

- 800 nm to 980 nm
- High intensity (>10 kW/cm^2)
- Low temperature dependence (<0.07 nm/°C)
- Maximum repetition rate (>200 kHz)
- Pulse widths (ns to CW)
- Custom emitter geometries
- Individually addressable
- Advanced beam conditioning



LEONARDO

LASERTEL

TYPICAL SPECIFICATIONS

760 nm - 1,100 nm		
Typical Parameters (@25°C)	**Units**	**Typical Value**
Pulse Width	ns	<5
Output Intensity	kW/cm^2	10
Wavelength	nm	800 to 980
Operating Voltage	V	2.8
Beam Divergence ($1/e^2$)	°	<30 (circular)
Spectral Width	nm	<5
Power Conversion Efficiency	%	35

ACCESSORIES

Lasertel VCSELs can be fully integrated with drive electronics, power boards and housings.

ABOUT US

Leonardo Electronics US enables next-gen technologies in defense, security, medical, automotive and industrial segments. For over 20 years, the Lasertel facility based in Tucson, AZ has driven robust laser design and innovation resulting in enabling technology to support market leaders worldwide.

520.744.5700 | sales@leonardo.us
Lasertel products are proudly made in the USA

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

leonardo.us

LEONARDO