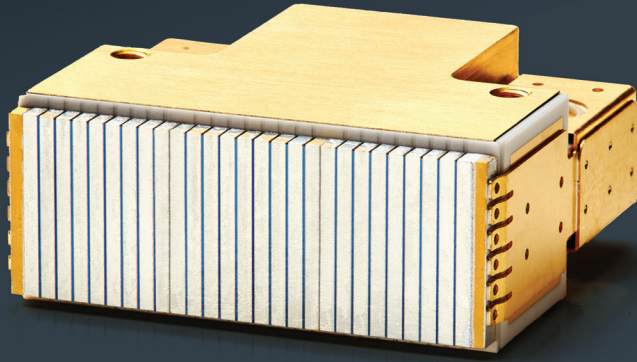


FLUID COOLED LASER DIODE ARRAYS

T6 STANDARD PRODUCTS - CW



Leonardo's fluid-cooled T6 laser diode array offers exceptional reliability, high performance, ruggedness, and brightness in a compact package. With its patented monolithic design, this cutting-edge solution features efficient cooling with filtered water or alternative fluids and a scalable design for flexible integration. The T6 is an ideal solution for a wide range of industrial, medical, and scientific applications.

KEY FEATURES

- Multiple wavelengths available from 760 nm to 1700 nm
- Monolithic, fully soldered construction
- Cooling path isolated from the electrical path
- Designed for close-packed 2D arrangement
- Lowest bar-bar pitch available on the market
- Stackable micro-optics plates for beam conditioning and wavelength stabilization

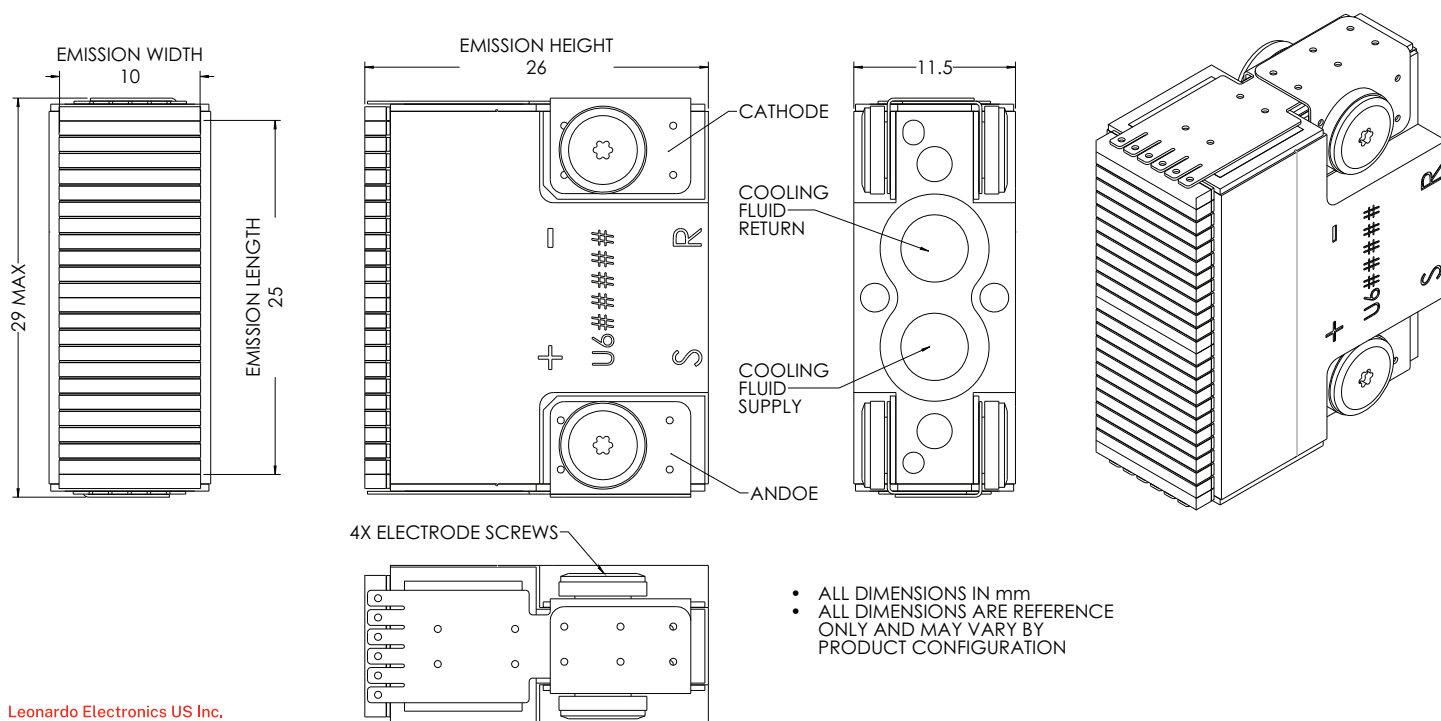
KEY BENEFITS

- Pump source tailored for a large range of gain media
- Compatible with harsh operating and storage requirements
- Compatible with multiple cooling fluids and schemes
- High brightness scaling to MW-class modules

TYPICAL FLUID COOLED LASER DIODE ARRAYS (T6 STANDARD PRODUCTS CW) SPECIFICATIONS

Typical Parameters	Units	CW-SWL780-1800	CW-SWL808-2000	CW-SWL1550-2000
Optical				
Output Power	W	1800	2000	200
Number of Bars	-	24	24	24
Typical Center Wavelength	nm	780	808	1550
Spectral Width (FWHM)	nm	3	3	10
Vertical Beam Divergence (FWHM)	°	36	36	27
Horizontal Beam Divergence (FWHM)	°	10	10	10
Electrical				
Conversion Efficiency	%	48	50	25
Threshold Current	A	13	15	4
Operating Current	A	75	78	30
Operating Voltage	V	36	36	28.5
Thermal				
Wavelength Temperature Coefficient	nm/°C	0.3	0.3	0.55
Cooling Fluid				
Operating Temperature (non-condensing)	°C	10	10	25
Filtered Particle Size	µm	10	10	10
Flow Rate	lpm	4	4	4
Pressure	psi	90	90	90

MECHANICAL SPECIFICATIONS



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