FLUID COOLEDLASER DIODE ARRAYS



Lasertel's fluid cooled laser diode arrays utilize a patented monolithic design that requires only filtered water (not deionized). This eliminates the most common failure mechanisms associated with microchannel cooled laser diodes. Requiring no o-rings or rubber gaskets, our laser diode arrays perform reliably in harsh environments.

KEY FEATURES:

- 760nm to 1700nm
- · Filtered water, not deionized
- Non-water alternative cooling fluids
- · Scalable building block format
- · Small bar-to-bar pitch for increased brightness
- Hard soldered construction
- Advanced beam conditioning
- Low pressure and water flow requirements
- Multi-wavelength in a single array
- * Contact us for custom configurations



YOUR LASER STARTS HERE

Customizable Packages

Lasertel laser diodes are manufactured in our US-based ISO 9001:2008, ISO 13485:2003 and AS9100C certified facility.





TYPICAL SPECIFICATIONS:

760nm - 1100nm							
TYPICAL OPTICAL PARAMETERS (@25°C)	Units	Typical Value					
Array Peak Output Power	W	1600	2000	2400	25000		
Bar Emission Length	mm	10					
Operation Mode		CW			Pulsed		
Operating Current	А	90	105	125	550		
Number of Bars	#	up to 20			up to 50		
Operating Voltage per Bar (760nm - 830nm)	V	1.9			2		
Operating Voltage per Bar (850nm - 1100nm)	V	1.7			1.8		
Power Conversion Efficiency	%	58			56		
Bar to Bar Pitch	mm	1.1			0.35		
Beam Divergence							
Fast Axis (FWHM)	0	36			32		
Slow Axis (FWHM)	0	10					

1400nm - 1700nm					
TYPICAL OPTICAL PARAMETERS (@25°C)	Units	Typical Value			
Array Peak Output Power	W	500			
Bar Emission Length	mm	10			
Operation Mode		CW			
Operating Current	А	80			
Number of Bars	#	up to 20			
Operating Voltage per Bar	V	1.5			
Power Conversion Efficiency	%	25			
Bar to Bar Pitch	mm	1.1			
Beam Divergence					
Fast Axis (FWHM)	0	27			
Slow Axis (FWHM)	0	10			

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

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