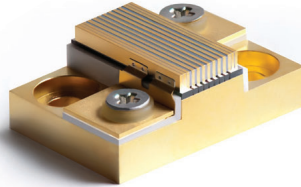


Conductively Cooled Laser Diode Arrays



Leonardo is the world's leading supplier of conductively cooled laser diode arrays that are available in a broad range of package types, bar geometries and wavelengths. Our laser diode products are optimized for your application.

KEY FEATURES

- 760 nm to 1700 nm
- Up to 1 kW peak power per bar
- Flexible package platform
- 100% hard solder assemblies
- Advanced beam conditioning
- Spectrally broadened bar and multi-wavelength stacks
- Fast and slow axis collimation
- Wavelength stabilized options

CUSTOMIZABLE PACKAGES



TYPICAL SPECIFICATIONS

760 nm - 1100 nm							
Typical Parameters (at 25°C)	Units	Typical Value					
Array Peak Output Power	W	2,000	4,000	10,000	20,000	2,000	3,000
Bar Emission Length	mm	10				3	5
Operation Mode		Pulsed					
Operating Current	A	95	200	550	1,100	120	165
Number of Bars	#	Up to 20					
Operating Voltage per Bar (760 nm - 830 nm)	V	1.9		2.1		2	
Operating Voltage per Bar (850 nm - 1,100 nm)	V	1.5		1.7		1.6	
Power Conversion Efficiency	%	60		58			
Bar to Bar Pitch	mm	0.35, 0.40, 1.2					
Beam Divergence							
Fast Axis (FWHM)	°	36		32		36	
Slow Axis (FWHM)	°	10					

1400 nm - 1700 nm							
Typical Parameters (at 25°C)	Units	Typical Value					
Array Peak Output Power	W	360					
Bar Emission Length	mm	10					
Operation Mode		Pulsed					
Operating Current	A	95					
Number of Bars	#	Up to 20					
Operating Voltage per Bar	V	1.5					
Power Conversion Efficiency	%	25					
Bar to Bar Pitch	mm	0.35, 0.40, 1.2					
Beam Divergence							
Fast Axis (FWHM)	°	27					
Slow Axis (FWHM)	°	10					

ABOUT US

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

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Patent Numbers:

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

Certifications:

AS9100D including ISO 9001:2015
 ISO 13485:2016 Medical
 IATF 16949:2016 Automotive
 ISO14001:2016 Environmental Management System

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