

Pointers and Illuminators

Leonardo's line of pointers and illuminators pairs our high-power diode arrays with advanced beam shaping and conditioning optics. As a vertically integrated manufacturer of chips, optics, packages, and electronics, Leonardo's Tucson facility offers a wide range of products customized for the specific application.



KEY FEATURES

- 760 nm to 1700 nm
- Rugged operating environments
- Hermetically sealed, epoxy-free output window
- Custom beam shapes & sizes
- Options for integrated red aiming beam, power monitor, temperature sensor
- Options for internal polarizer and homogenizer
- Customizable packages



TYPICAL SPECIFICATIONS

760 nm - 1100 nm			
Typical Parameters (at 25°C)	Units	Typical Value	
Output Power	W	1 to 12	20 to 1,000
Electrical to Optical Efficiency	%	>50	
Beam Shape		Customer Defined	
Aspect Ratio		1:1 to 3:1	1:1 to 2,000:1
Divergence	mrad	As low as 0.5	As low as 10
Power Uniformity	%p-v	<10	
Energy Distribution		Top Hat or Gaussian	

1400 nm - 1700 nm			
Typical Parameters (at 25°C)	Units	Typical Value	
Output Power	W	0.5 to 3	10 to 1,000
Electrical to Optical Efficiency	%	>20	
Beam Shape		Customer Defined	
Aspect Ratio		1:1 to 3:1	1:1 to 2,000:1
Spot Size	mrad	As low as 0.5	As low as 10
Power Uniformity	%p-v	<10	
Energy Distribution		Top Hat or Gaussian	

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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