

POINTERS AND ILLUMINATORS



Leonardo's product 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 BENEFITS

- Low size and weight
- Direct diode for high optical efficiency
- Scalable power
- Near-infrared and short-wave infrared wavelengths
- Long operating lifetime
- Military rugged (ground, air, and space)

KEY FEATURES

- Operation modes CW or pulsed
- Hermetically sealed, epoxy-free output window
- Custom beam shapes and sizes
- Options for integrated red aiming beam, power monitor, and temperature sensing
- Options for internal polarizer and homogenizer

TYPICAL POINTER SPECIFICATIONS (LOW POWER CW)

Parameters	Units	Typical Value
Wavelength	nm	760-1700
Output Power	W	1-20
FWHM Beam Divergence	mrad	Variable
Beam Shape		Customer Defined
Power Conversion Efficiency	%	>50



TYPICAL ILLUMINATOR SPECIFICATIONS (HIGH POWER CW)

Parameters	Units	Typical Value
Wavelength	nm	760-1700
Output Power	W	100-1000
FWHM Beam Divergence	mrad	10x10
Beam Shape		Customer Defined
Power Conversion Efficiency	%	>50



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

Certifications:
AS 9100D Including ISO 9001:2015 Aerospace
IATF 16949:2016 Automotive
ISO 14001:2015 Environmental Management System



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