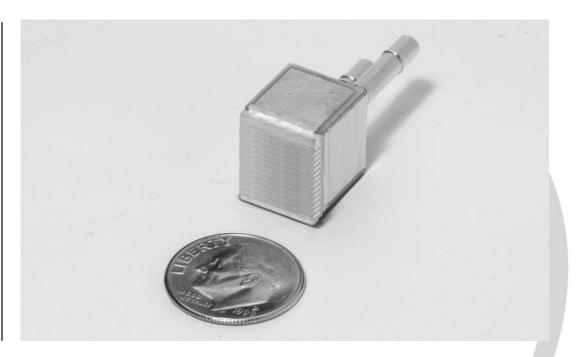
500W QCW Lensed Laser Diode Array Part Number: LAR23P500

E2 PACKAGE

- Packaged 13-Bar Lensed Laser Diode Array
- Available Wavelengths 790-1550nm
- Other Powers Are Also Available



OPTICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
QCW Peak Power Output	55A, 1 mS, 50 Hz	500			W
Operating Current	500W at 25°C Heat Sink		74	80	Α
Threshold Current	25°C Heat Sink		13	16	Α
Center Wavelength	500W at 25°C Heat Sink		808	/-	nm
Wavelength Tolerance	500W at 25°C Heat Sink		± 5	-4	nm
Spectral Width FWHM	500W at 25°C Heat Sink		3.0	4.0	nm
Wavelength Shift		0.23	0.25	0.27	nm/°C
Beam Divergence FWHM			3x10		°×°

ELECTRICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Series Resistance	25°C Heat Sink	//	0.104	0.156	ohms
Operating Voltage	25°C Heat Sink, 500W	4	26.0	29.9	V

ABSOLUTE MAXIMUM RATINGS

PARAMETER	CONDITIONS		
Forward Current	70A		
Reverse Current	25μA		
Reverse Voltage	3V		
Operating Temperature Range (2)	-20°C to 50°C		
Storage Temperature Range	-40°C to 85°C		

NOTES

- (1) These specifications apply for operations at 808nm. Other wavelengths available upon request.
- (2) A dry nitrogen environment should be provided by the user when storing and operating at temperatures below ambient dew point.

NORTHROP GRUMMAN

Space Technology

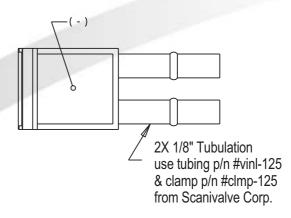
Cutting Edge Optronics

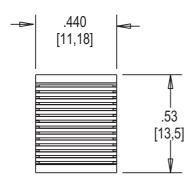


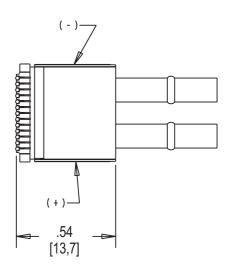
光技術をサポートする

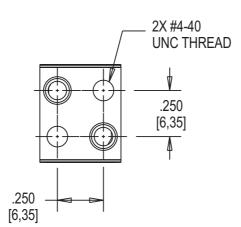
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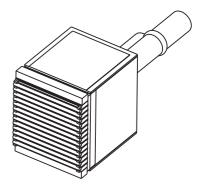
MECHANICAL CHARACTERISTICS











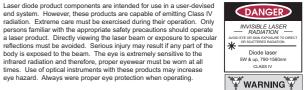
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Rev B 02/04



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Laser diode product components are intended for use in a user-devised