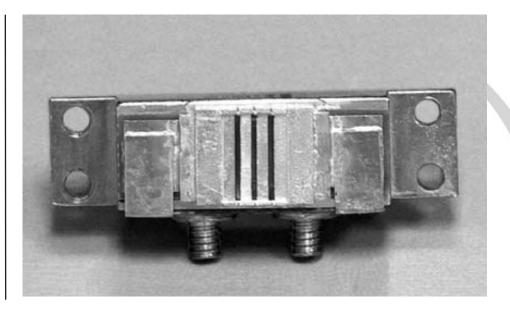
45W Lensed CW Laser Diode Array Part Number: LAR16C045

LENSED DIODE ARRAY

- · CW powers up to 320W
- · QCW powers up to 600W
- · Higher powers and custom configurations available
- · Available wavelengths 790-1550nm



OPTICAL CHARACTERISTICS

CONDITIONS	MIN	TYP	MAX	UNITS
30A at 25°C Heat Sink	45			W
45W at 25°C Heat Sink		28	34	А
25°C Heat Sink		7.5	9.0	А
45W at 25°C Heat Sink		808		nm
45W at 25°C Heat Sink		± 3		nm
45W at 25°C Heat Sink		3.1	4.0	nm
	0.23	0.25	0.27	nm/°C
		40 x 10	42 x 12	°x°
	30A at 25°C Heat Sink 45W at 25°C Heat Sink 25°C Heat Sink 45W at 25°C Heat Sink 45W at 25°C Heat Sink	30A at 25°C Heat Sink 45 45W at 25°C Heat Sink 25°C Heat Sink 45W at 25°C Heat Sink 0.23	30A at 25°C Heat Sink 45 45W at 25°C Heat Sink 28 25°C Heat Sink 7.5 45W at 25°C Heat Sink 808 45W at 25°C Heat Sink ± 3 45W at 25°C Heat Sink 3.1 0.23 0.25	30A at 25°C Heat Sink 45 45W at 25°C Heat Sink 28 34 25°C Heat Sink 7.5 9.0 45W at 25°C Heat Sink 808 45W at 25°C Heat Sink ± 3 45W at 25°C Heat Sink ± 3 45W at 25°C Heat Sink 3.1 4.0 0.23 0.25 0.27

ELECTRICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Series Resistance	25°C Heat Sink		0.015	0.036	ohms
Operating Voltage	25°C Heat Sink, 45W		5.4	6.3	V

ABSOLUTE MAXIMUM RATINGS

PARAMETER	CONDITIONS
Forward Current	35A
Reverse Current	25µA
Reverse Voltage	3V
Operating Temperature Range ⁽²⁾	-20°C or to 50°C
Storage Temperature Range	-40°C to 85°C

NOTES

光技術をサポートする

株式会社オプトサイエンス

http://www.optoscience.com

(1) These specifications apply for operation at 808nm. Other wavelengths available upon request.

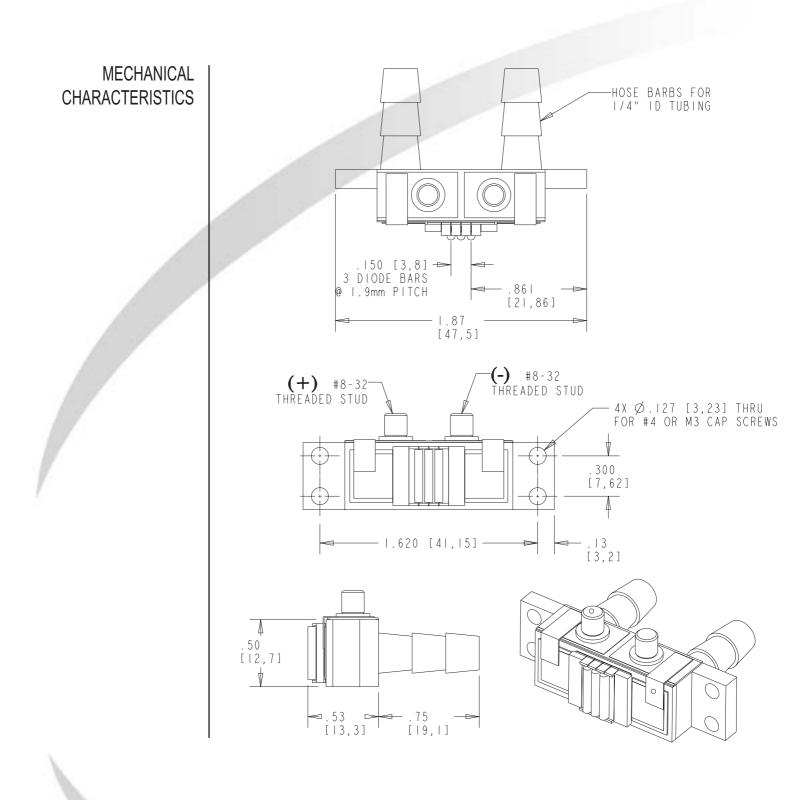
(2) A dry nitrogen environment should be provided by the user when storing and operating at temperatures below ambient dew point.

NORTHROP GRUMMAN



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any infringement on the rights of others resulting from the use of these products.

Laser diode product components are intended for use in a user-devised Laser diode product components are intended for use in a user-devised end system. However, these products are capable of emitting Class IV radiation. Extreme care must be exercised during their operation. Only persons familiar with the appropriate safety precautions should operate a laser product. Directly viewing the laser beam or exposure to specular reflections must be avoided. Serious injury may result if any part of the body is exposed to the beam. The eye is extremely sensitive to the infrared radiation and therefore, proper eyewear must be worn at all times. Use of optical instruments with these products may increase eve hazard. Always were proper eye emitericing when operating new hazard series and the series of the results of the series of the se eve hazard. Always were proper eve protection when operating.





Cutting Edge Optronics

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This Product is covered by one or more of the following Patents: 5,898,211 5,985,684 5,913,108 6,310,900 Other US and Foreign Patents Pending

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