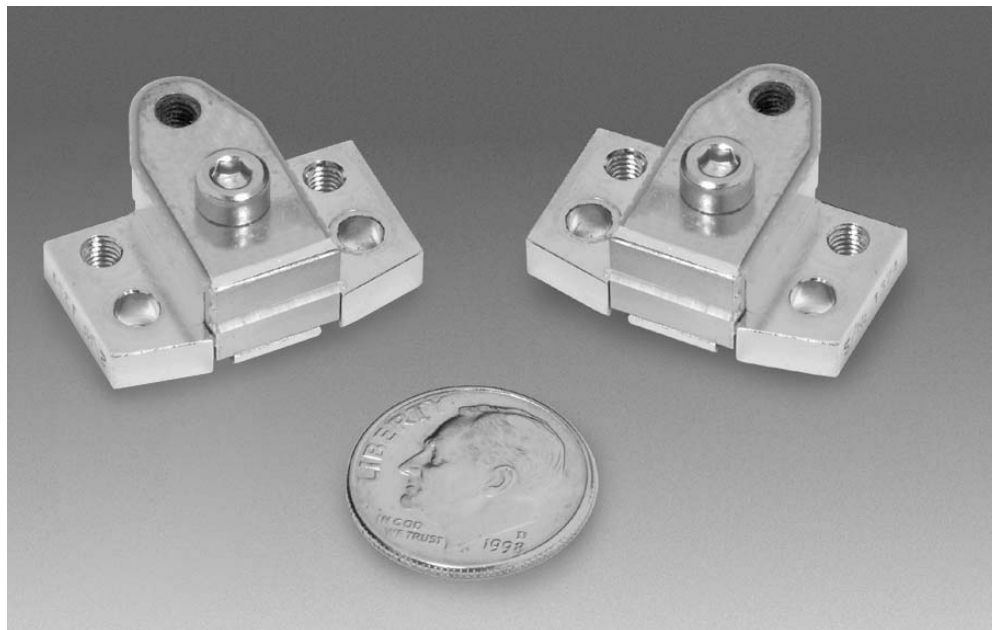


# 17W CW Lensed Laser Diode Array

Part Number: LAR31C017

## W2 PACKAGE

- Packaged Laser Diode Array
- Available With Any Silver Bullet™ Configuration
- Silver Bullet™ Can Be Mounted P-Side Up Or P-Side Down
- Available Wavelengths 790-1550nm



## OPTICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
CW Power Output	32A at 25°C Heat Sink	17	---	---	W
Operating Current	17W at 25°C Heat Sink	---	28	32	A
Threshold Current	25°C Heat Sink	---	7.5	9.0	A
Center Wavelength	17W at 25°C Heat Sink	---	808	---	nm
Wavelength Tolerance	17W at 25°C Heat Sink	---	± 3	---	nm
Spectral Width	17W at 25°C Heat Sink	---	1.9	2.5	nm
Wavelength Shift	---	0.23	0.25	0.27	nm/°C
Beam Divergence FWHM	---	---	1x10	---	° x °

## ELECTRICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Built-in Voltage	25°C Heat Sink	---	1.6	1.7	V
Series Resistance	25°C Heat Sink	---	0.005	0.012	ohms
Operating Voltage	25°C Heat Sink, 17W	---	1.8	2.1	V

## ABSOLUTE MAXIMUM RATINGS

PARAMETER	CONDITIONS
Forward Current	35A
Reverse Current	25µA
Reverse Voltage	3V
Operating Temperature Range <sup>(2)</sup>	-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

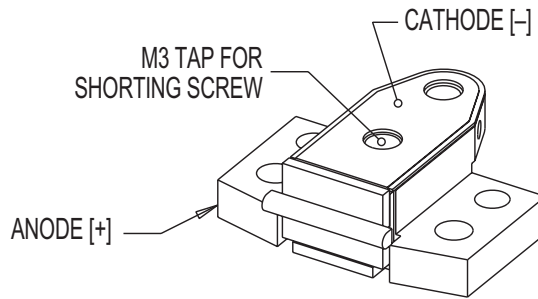
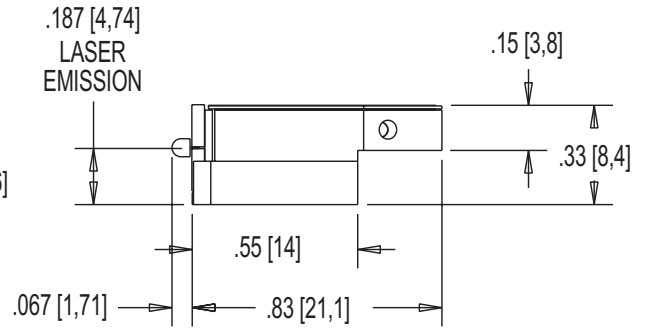
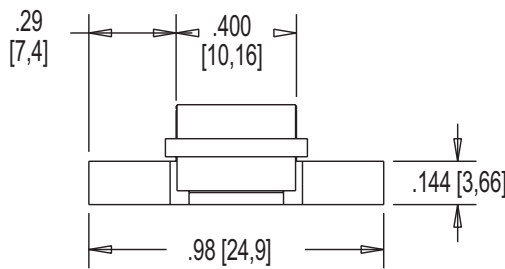
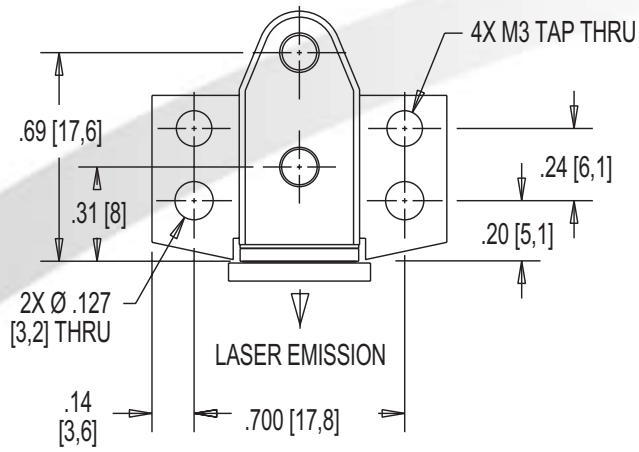


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# MECHANICAL CHARACTERISTICS



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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.

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 eye hazard. Always wear proper eye protection when operating.

**DANGER**

INVISIBLE LASER  
RADIATION

AVOID EYE OR SKIN EXPOSURE TO DIRECT  
OR SCATTERED RADIATION

\* Diode laser  
5W & up, 790-1560nm  
CLASS IV

**WARNING**

ELECTROSTATIC DISCHARGE  
SENSITIVE DEVICE  
REQUIRING SPECIAL HANDLING

Rev B 02/04

**NORTHROP GRUMMAN**  
*Space Technology*

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