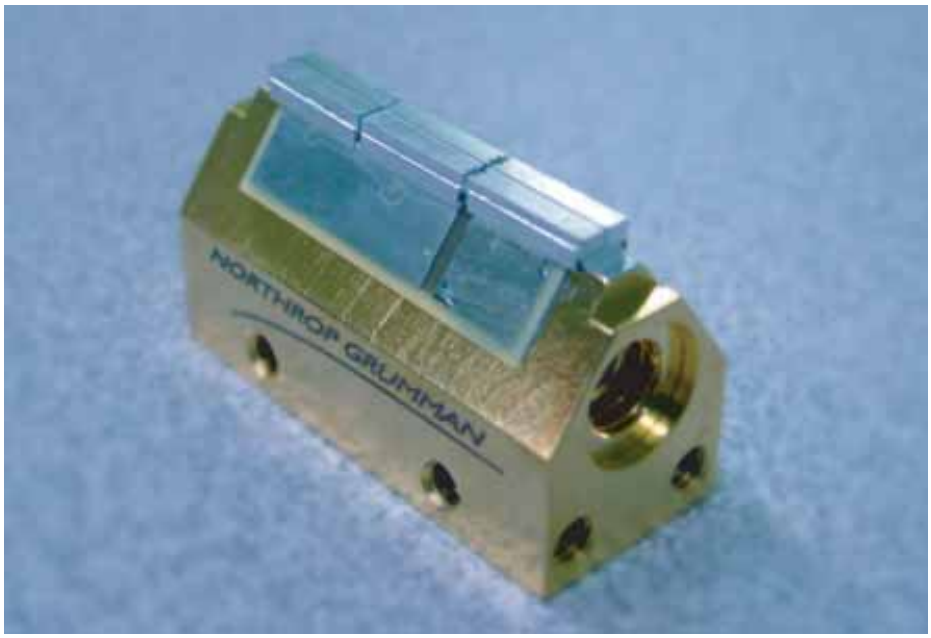
60W CW Laser Diode Array
Part Number: ARR81C060

- Packaged Laser Diode Array
- Replacement diode for Lee Laser DPSS systems
- Available Wavelengths (790-1550nm)



OPTICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
CW Power Output	30A at 25°C Heat Sink	60	---	---	W
Operating Current	80W at 25°C Heat Sink	---	27	30	A
Threshold Current	25°C Heat Sink	---	7.5	9.0	A
Center Wavelength	80W at 25°C Heat Sink	---	808	---	nm
Wavelength Tolerance	80W at 25°C Heat Sink	---	± 3	---	nm
Spectral Width FWHM	80W at 25°C Heat Sink	--	1.9	3.0	nm
Wavelength Shift	---	---	0.25	---	nm/°C
Beam Divergence FWHM	---	---	38x10	44x12	° x °

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, 80W	---	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
(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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株式会社オプトサイエンス
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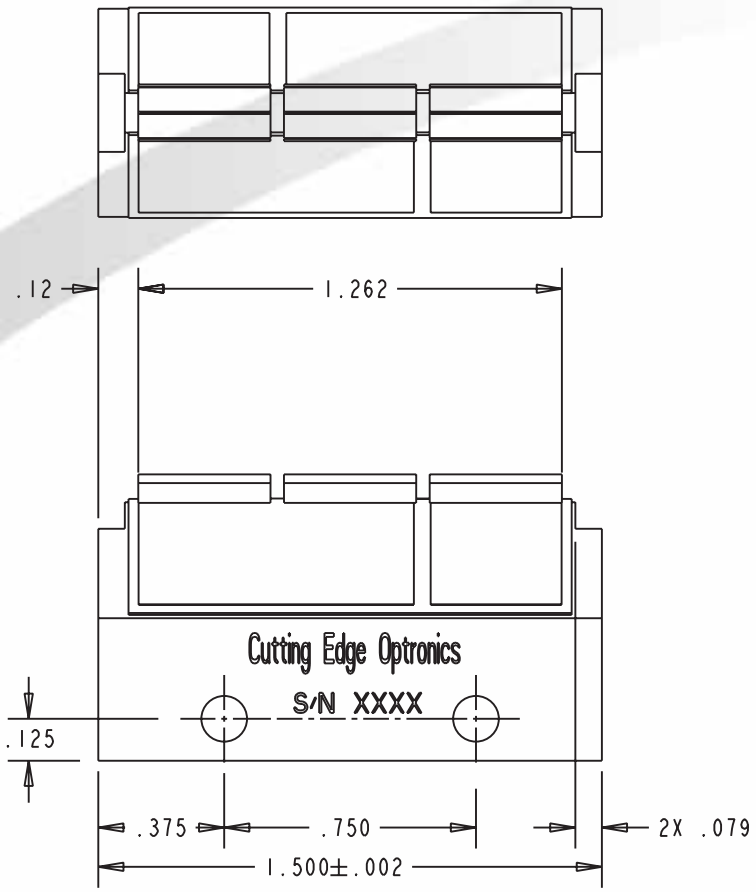
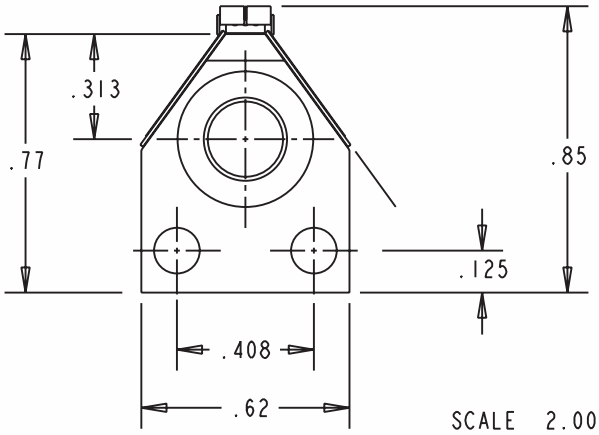
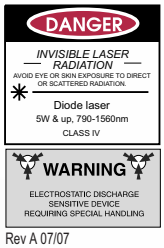
MECHANICAL CHARACTERISTICS





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 were proper eye protection when operating.



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