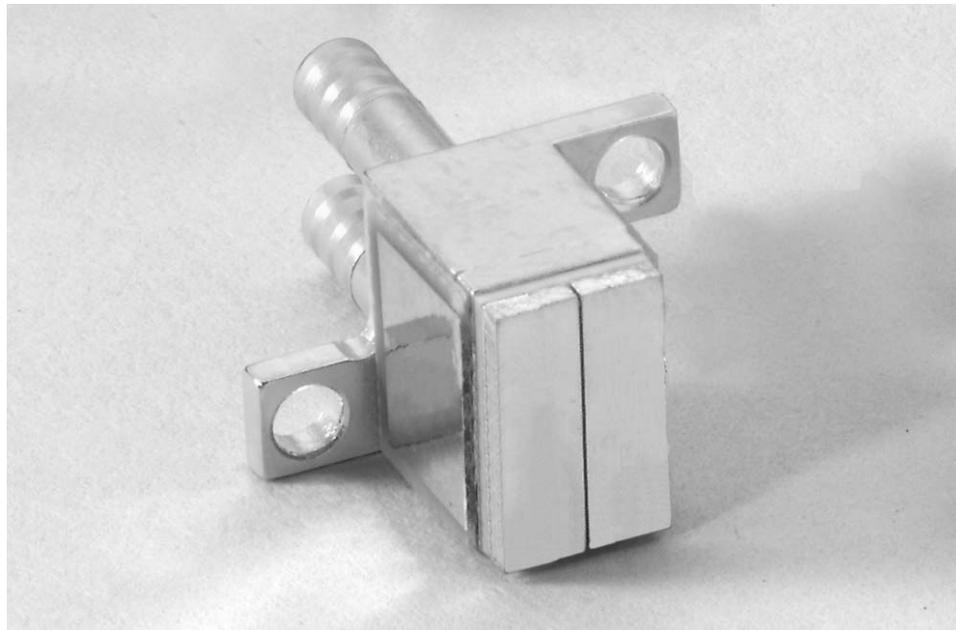


40W CW Laser Diode Array

Part Number: ARR20C040

E1 PACKAGE

- Packaged Laser Diode Array
- Other Powers Are Also Available
- Available Wavelengths (790-1550nm)



OPTICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
CW Power Output	60A at 25°C Heat Sink ⁽¹⁾	40	---	---	W
Operating Current	40W at 25°C Heat Sink	---	55	60	A
Threshold Current	25°C Heat Sink	---	14	20	A
Center Wavelength	40W at 25°C Heat Sink	---	808	---	nm
Wavelength Tolerance	40W at 25°C Heat Sink	---	± 3	---	nm
Spectral Width FWHM	40W at 25°C Heat Sink	---	1.9	2.5	nm
Wavelength Shift	---	0.23	0.25	0.27	nm/°C
Beam Divergence FWHM	---	---	40x10	42x12	° x °

ELECTRICAL CHARACTERISTICS

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Series Resistance	25°C Heat Sink	---	0.005	0.012	ohms
Operating Voltage	25°C Heat Sink, 40W	---	1.8	2.1	V

ABSOLUTE MAXIMUM RATINGS

PARAMETER	CONDITIONS
Forward Current	60A
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 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.

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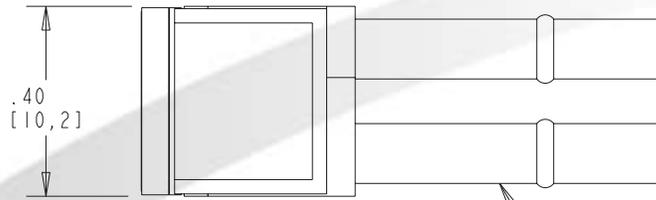


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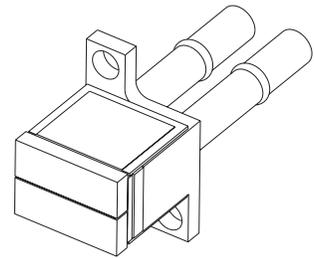
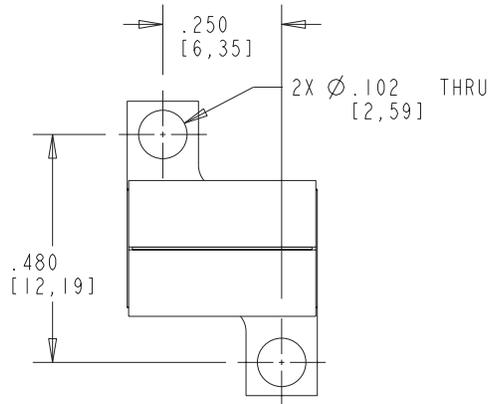
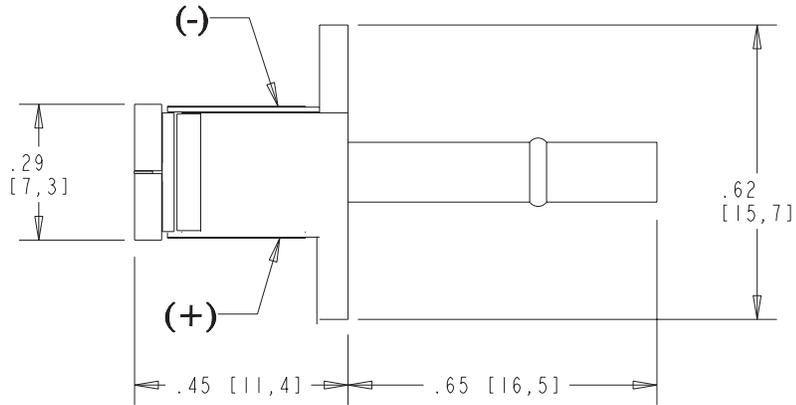
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MECHANICAL CHARACTERISTICS



2X 1/8" TUBULATION
USE TUBING P/N #VINL-125
& CLAMP P/N #CLMP-125
FROM SCANIVALVE CORP.



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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
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Cutting Edge Optronics

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