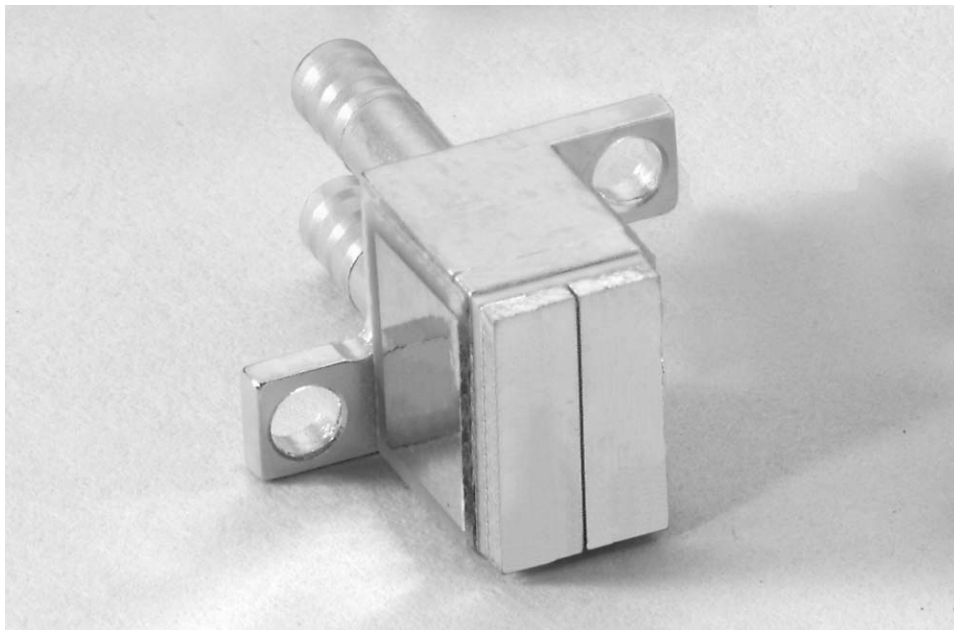


20W CW Laser Diode Array

Part Number: ARR20C020

E 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	30A at 25°C Heat Sink ⁽¹⁾	20	---	---	W
Operating Current	20W at 25°C Heat Sink	---	28	30	A
Threshold Current	25°C Heat Sink	---	7.5	9.0	A
Center Wavelength	20W at 25°C Heat Sink	---	808	---	nm
Wavelength Tolerance	20W at 25°C Heat Sink	---	± 3	---	nm
Spectral Width FWHM	20W 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, 20W	---	1.8	2.1	V

ABSOLUTE MAXIMUM RATINGS

PARAMETER	CONDITIONS
Forward Current	50A
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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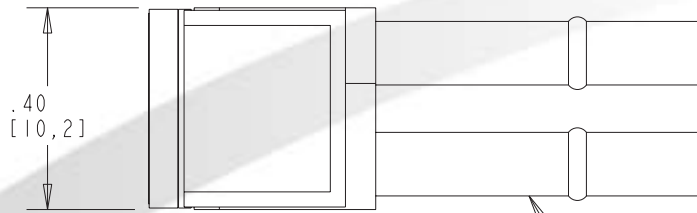


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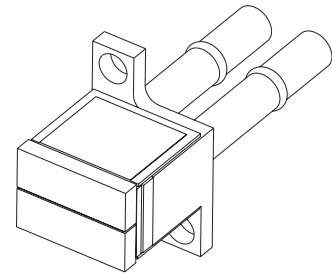
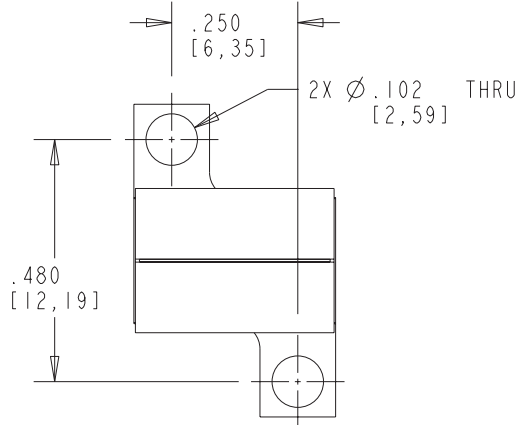
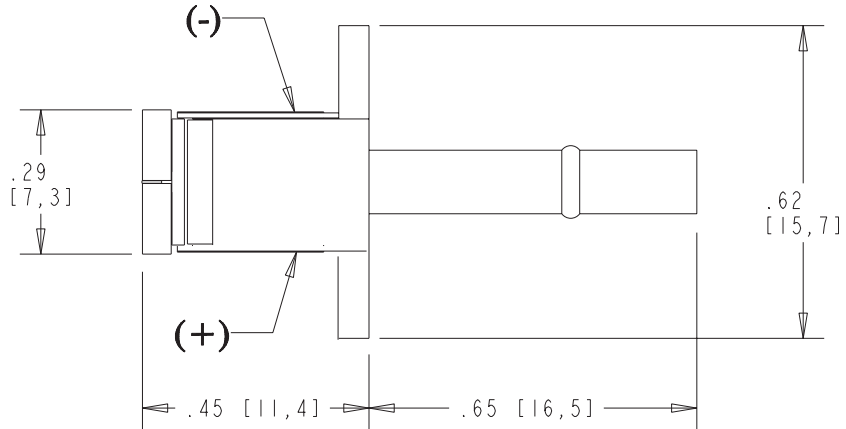
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MECHANICAL CHARACTERISTICS



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.



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