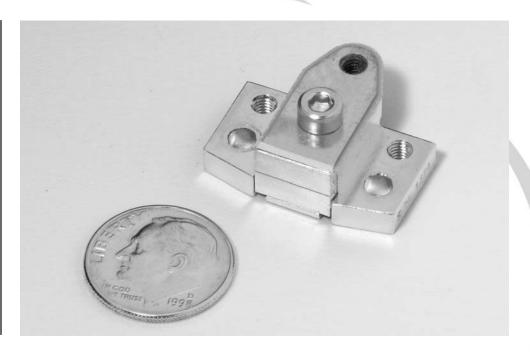
### 20W CW Laser Diode Array Part Number: ARR31C020

#### 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	20			W
Operating Current	20W at 25°C Heat Sink		28	30	Α
Threshold Current	25°C Heat Sink		7.5	9.0	Α
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	°×°

# 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	35A
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 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.

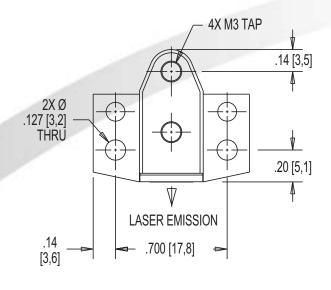


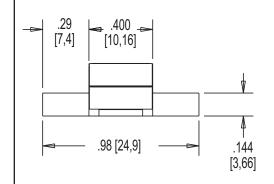
Space Technology

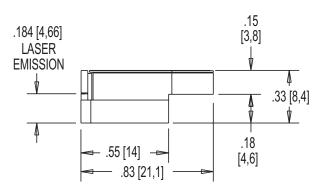
**Cutting Edge Optronics** 

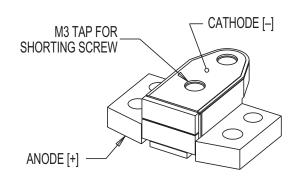


#### **MECHANICAL CHARACTERISTICS**









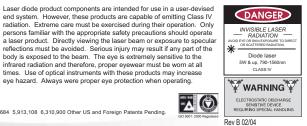
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Information contained herein is believed to be reliable and accurate.

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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eye hazard. Always were proper eye protection when operating.