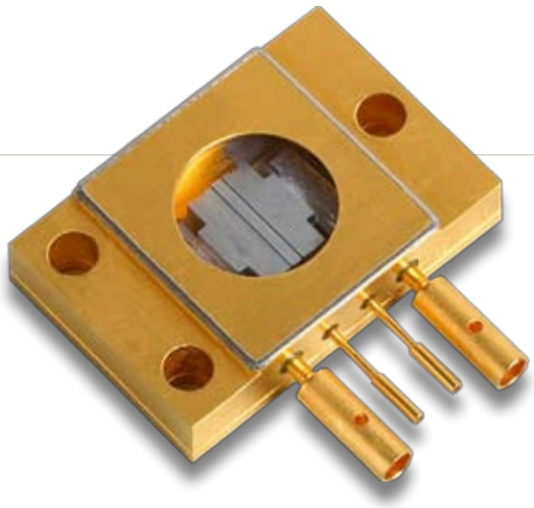
HS PACKAGE

LASER DIODE ARRAY

32W CW

NORTHROP GRUMMAN



PART NUMBER: ARR94C032

2-BAR HERMETICALLY SEALED PACKAGE

FEATURES AND BENEFITS

- Conductively Cooled
- Environmentally Sealed
- Ideal for Illumination Applications
- Available Wavelengths: 790-1550nm
- Multi-wavelength Configurations Available
- HS Package Also Avaiable With Up To 40W Maximum Output Power

OPTICAL CHARACTERISTICS

Parameter	Conditions	Typical	Units
CW Power Output	22A at 25˚C Heat Sink	32	W
Operating Current	32W at 25˚C Heat Sink	22	A
Threshold Current	25˚C Heat Sink	8	A
Slope Efficiency	25°C Heat Sink	2.30	W/A
Electrical-Optical Efficiency	32W at 25˚C Heat Sink	43	%
Center Wavelength	32W at 25˚C Heat Sink	808	nm
Wavelength Tolerance	32W at 25˚C Heat Sink	+/-3	nm
Spectral Width	32W at 25˚C Heat Sink	1.8	nm
Wavelength Shift	—	0.25	nm/˚C
Beam Divergence FWHM	—	38x7	x°
Beam Divergence FWHM (Lensed)	—	1x7	x°

ELECTRICAL CHARACTERISTICS

Parameter	Conditions	Typical	Units
Series Resistance	25˚C Heat Sink	0.004	Ω
Operating Voltage	25˚C Heat Sink, 32W	3.4	V

ABSOLUTE MAXIMUM RATINGS

Parameter	Conditions
Reverse Current	0 A
Reverse Voltage	0 V
Operating Temperature Range	-40˚C to 70˚C
Storage Temperature Range	-40˚C to 85˚C

NOTES

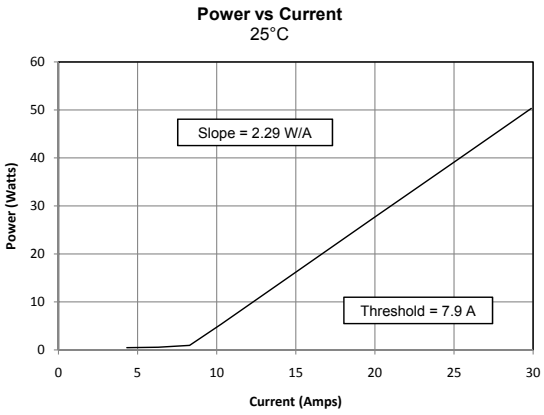
(1) These specifications apply for operation at 808nm. Other wavelengths available upon request.

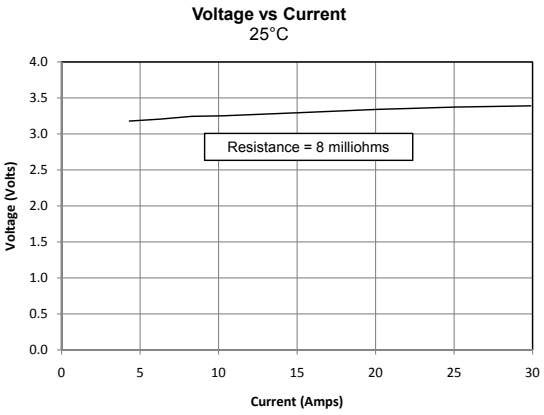
(2) A dry nitrogen environment should be provided by the user when storing and operating at temperatures below ambient dew point.

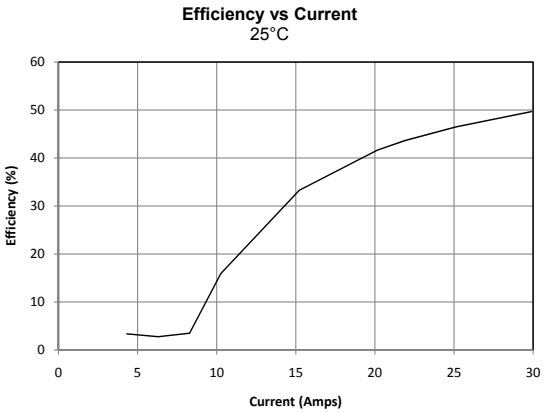
(3) Fast axis and slow axis lensing options are available for most NG-CEO heat exchanger designs.

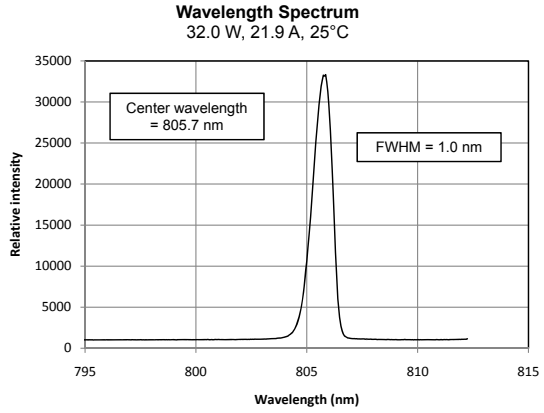
32W CW

OPTICAL CHARACTERISTICS (SAMPLE)

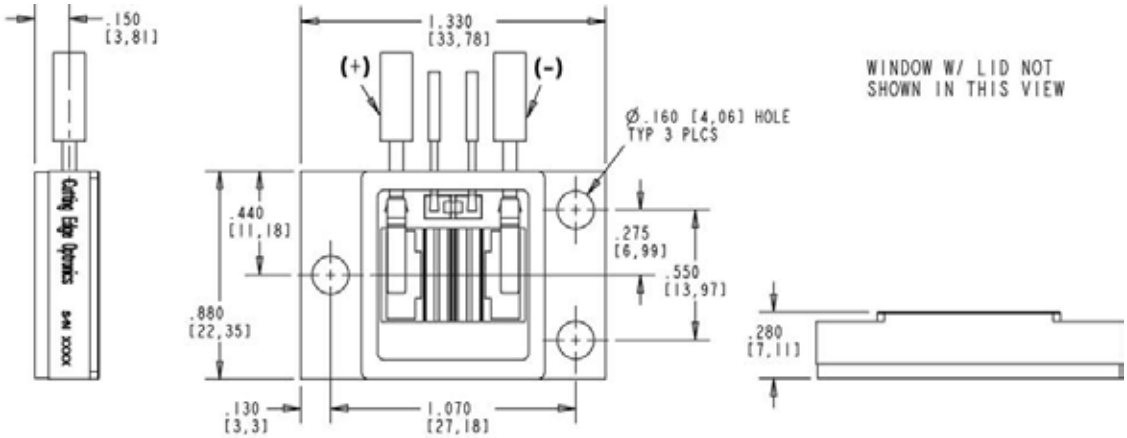








MECHANICAL CHARACTERISTICS



PHOTONIC SOLUTIONS

Photonic Solutions Ltd Unit 2.2, Quantum Court, Research Avenue South,
HWU Research Park, Edinburgh, EH14 4AP, UK, Tel: +44 (0)131 664 8122
Email **sales@photonicsolutions.co.uk** Web **www.photonicsolutions.co.uk**