G PACKAGE

20W CW

NORTHROP GRUMMAN



PART NUMBER: ARR179C020 1-BAR G PACKAGE

- Assembled With Hard Solder & Expansion Matched Materials
 - Conductively Cooled
 - Small Compact Design
 - An Industry Standard
 - Ideal For Side Pumping Or Direct Diode Applications
- Available Wavelengths: 790-1550nm

OPTICAL CHARACTERISTICS

Parameter	Conditions	Typical	Units
CW Power Output	25A at 25°C Heat Sink	20	W
Operating Current	20W at 25°C Heat Sink	25	Α
Threshold Current	25°C Heat Sink	8	А
Slope Efficiency	25°C Heat Sink	1.15	W/A
Electrical-Optical Efficiency	20W at 25°C Heat Sink	47	%
Center Wavelength	20W at 25°C Heat Sink	808	nm
Wavelength Tolerance	20W at 25°C Heat Sink	+/-3	nm
Spectral Width	20W 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, 20W	1.7	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

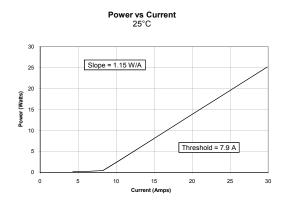
NOTES

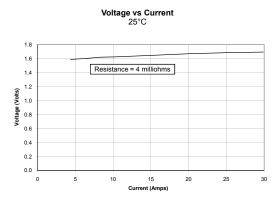
- (1) These specifications apply for operation at 808nm. Other wavelengths available upon request.
- (2) A dry nitrogen environment should be provided by the user when storing and operating at temperatures below ambient dew point.
- (3) Fast axis and slow axis lensing options are available for most NG-CEO heat exchanger designs.

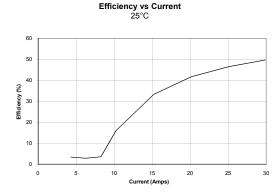
G PACKAGE

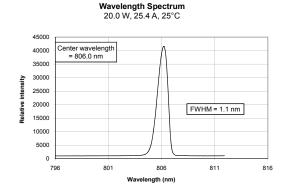
20W CW

OPTICAL CHARACTERISTICS (SAMPLE)

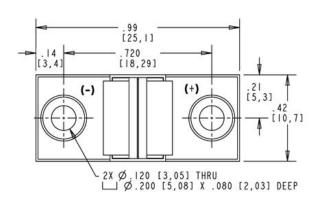


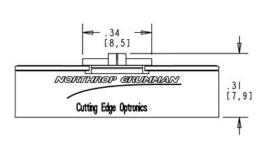






MECHANICAL CHARACTERISTICS





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