LASER DIODE BARS

200W QCW

DIODE BARS

NORTHROP GRUMMAN

PART NUMBER: UMB700P200 LASER DIODE BAR

- Excellent Solderability

- Available With Any Golden Bullet[®] Configuration

- Lot Tested

- Available Wavelengths (790-980nm)

FEATURES AND BENEFITS

> OPTICAL CHARACTERISTICS

Parameter	Conditions	Min	Тур	Units
QCW Power Output	180A at 25°C Heat Sink	200	—	W
Operating Current	200W at 25°C Heat Sink	_	180	А
Threshold Current	25°C Heat Sink	_	15	А
Slope Efficieny	25°C Heat Sink	_	1.2	W/A
Efficieny	200W at 25°C Heat Sink	_	55	%
Number of Emitters	_	_	52	
Emitter Size	_	_	150×1	μm
Emitter Pitch	_	_	180	μm
Center Wavelength	200W at 25°C Heat Sink	—	808	nm
Wavelength Tolerance	200W at 25°C Heat Sink	_	+/-3	nm
Spectral Width	200W at 25°C Heat Sink	_	2.5	nm
Wavelength Shift	_	_	0.25	nm/°C
Beam Divergence FWHM	_	_	40×10	°×°
Polarization	_	_	TE	

20

25

10

> ELECTRICAL CHARACTERISTICS

Parameter	Conditions	Min	Тур	Units
Series Resistance	25°C Heat Sink	_	0.002	ohms
Operating Voltage	25°C Heat Sink, 200W	_	2.0	V

MECHANICAL CHARACTERISTICS

Parameter	Typical
Bar Width	9.6 mm
BarThickness	135 µm
Bar Cavity Length	1000 µm

> NOTES

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

_{光技術をサポートする} 株式会社オプトサイエンス

http://www.optoscience.com

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



東京本社〒160-0014 東京都新宿区内藤町1番地 内藤町ビルディング TEL:03 (3356) 1064 FAX:03 (3356) 3466 E-mail:info@optoscience.com 大阪支店〒532-0011 大阪市淀川区西中島7-7-2 新大阪ビル西館 TEL:06 (6305) 2064 FAX:06 (6305) 1030 E-mail:osk@optoscience.com 名古屋営業所〒450-0002 名古屋市中村区名駅2-37-21 東海ソフトビル TEL:052 (569) 6064 FAX:052 (569) 8064 E-mail:ngo@optoscience.com

200W QCW

DE BA

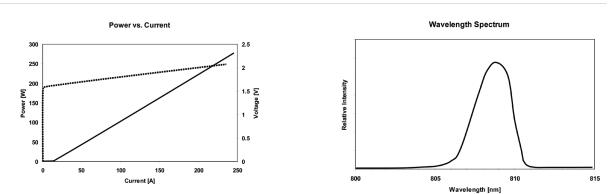
ABSOLUTE MAXIMUM RATINGS

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

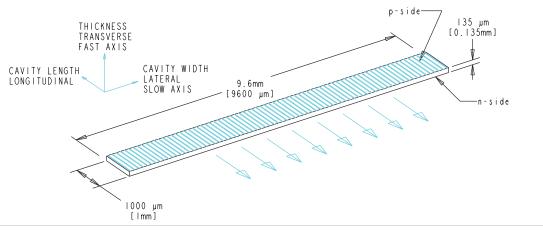
> SOLDERING CHARACTERISTICS

Parameter	Conditions
Metalization	1000 Å Au over Pt barrier

OPTICAL CHARACTERISTICS (TYPICAL)



MECHANICAL CHARACTERISTICS



Copyright © 2008 Northrop Grumman Cutting Edge Optronics All Rights Reserved. Northrop Grumman Cutting Edge Optronics reserves the right to change product design and specifications at any time without notice. No license is granted by implication or otherwise under any patents or patent rights of Northrop Grumman Cutting Edge Optronics or others. No responsibility is assumed for the use of these products, nor for any infringement on the rights of others resulting from the use of these products. Information contained herein is believed to be reliable and accurate. Laser diode product components are intended for use in a userdevised 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 were proper eye protection when operating. 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. 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.



Cutting Edge Optronics 20 Point West Blvd. St. Charles, MO 63301 P 636.916.4900 F 636.916.4994 www.st.northropgrumman.com/ceolaser st-ceolaser-info@ngc.com