# GOLDEN BULLET

#### LASER DIODE SUBMODULE

### **100W QCW**

## PART NUMBER: ASM232P100

NORTHROP GRUMMAN

FEATURES AND BENEFITS



- Proprietary Hard Solder Technology

- Long Pulse and/or High Duty Cycle

- Expansion Matched Materials

- Available Wavelengths (790-980nm)

#### **OPTICAL CHARACTERISTICS**

Parameter	Conditions	Min	Тур	Units
QCW Power Output	98A at 25°C Heat Sink	100	_	W
Operating Current	100W at 25°C Heat Sink	_	98	А
Threshold Current	25°C Heat Sink	—	15	А
Center Wavelength	100W at 25°C Heat Sink	—	808	nm
Wavelength Tolerance	100W at 25°C Heat Sink	—	+/-3	nm
Spectral Width	100W at 25°C Heat Sink	—	2.0	nm
Wavelength Shift	—	—	0.25	nm/°C
Beam Divergence FWHM	_	—	40×10	°X°

#### ELECTRICAL CHARACTERISTICS

Parameter	Conditions	Min	Тур	Units
Series Resistance	25°C Heat Sink	_	0.002	ohms
Operating Voltage	25°C Heat Sink, 100W	—	1.8	V

#### ABSOLUTE MAXIMUM RATINGS

Parameter	Conditions
Reverse Current	0A
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.

光技術をサポートする

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



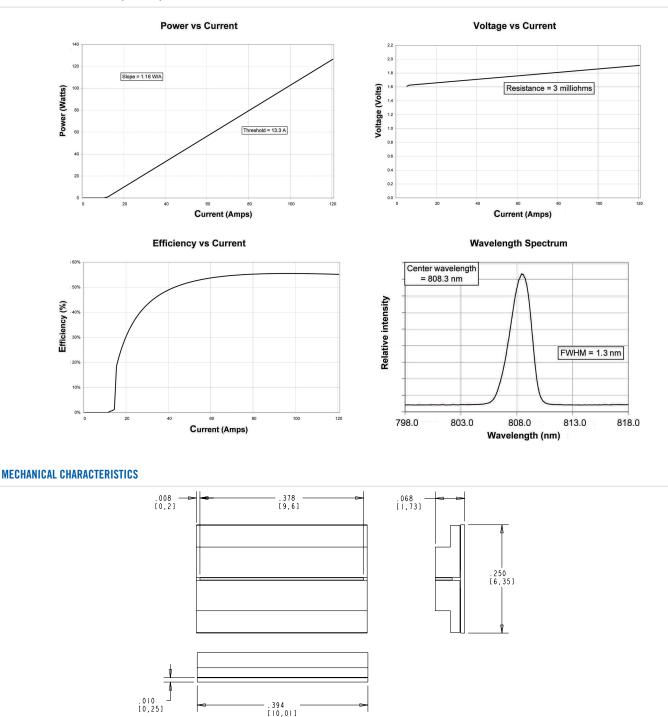
東 京 本 社 〒160-0014 東京都新宿区内藤町 1 番地 内藤町ビルディング TEL:03 (3356) 1064 FAX:03 (3356) 3466 E-mail:info@optoscience.com 大 阪 支 店 〒532-0011 大阪市淀川区西中島7-7-2 新大阪ビル西館 TEL:06 (6305) 2064 FAX:06 (6305) 1030 E-mail:osk@optoscience.com 名古屋営業所 〒450-0002 名古屋市中村区名駅2-37-21 東海ソフトビル TEL:052 (569) 6064 FAX:052 (569) 8064 E-mail:ngo@optoscience.com

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#### **OPTICAL CHARACTERISTICS (TYPICAL)**



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Cutting Edge Optronics 20 Point West Blvd. St. Charles, M0 63301 P 636.916.4900 F 636.916.4994 www.st.northropgrumman.com/ceolaser st-ceolaser-info@ngc.com