GOLDEN BULLET

LASER DIODE SUBMODULE

50W QCW

NORTHROP GRUMMAN

PART NUMBER: ASM232P050

GOLDEN BULLET SUBMODULE

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	Typ	Units
QCW Power Output	54A at 25˚C Heat Sink	50	—	W
Operating Current	50W at 25˚C Heat Sink	—	54	A
Threshold Current	25˚C Heat Sink	—	12	A
Center Wavelength	50W at 25˚C Heat Sink	—	808	nm
Wavelength Tolerance	50W at 25˚C Heat Sink	—	+/-3	nm
Spectral Width	50W at 25˚C Heat Sink	—	1.6	nm
Wavelength Shift	—	—	0.25	nm/˚C
Beam Divergence FWHM	—	—	40x10	˚x˚

ELECTRICAL CHARACTERISTICS

Parameter	Conditions	Min	Typ	Units
Series Resistance	25˚C Heat Sink	—	0.004	ohms
Operating Voltage	25˚C Heat Sink, 50W	—	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.

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

光技術をサポートする
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http://www.optoscience.com

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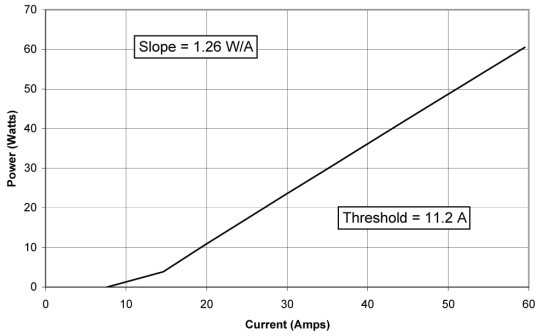
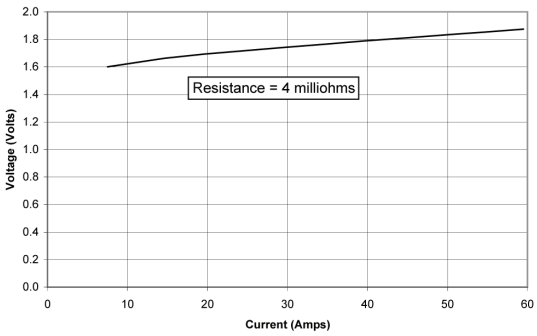
50W QCW

OPTICAL CHARACTERISTICS (TYPICAL)

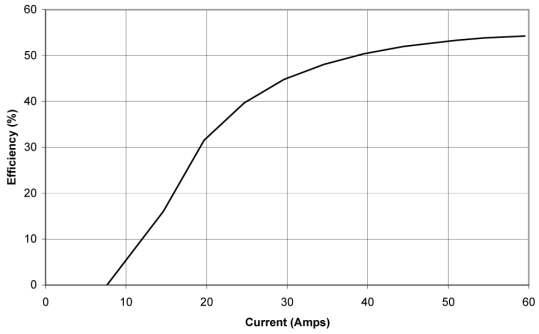
Power vs Current



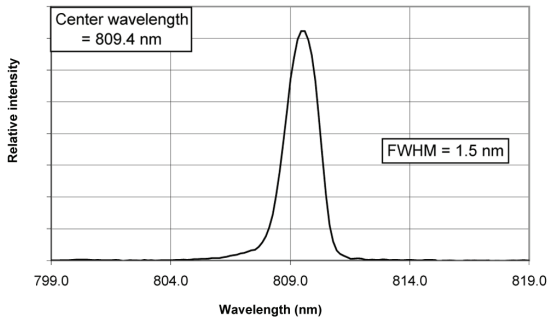
Voltage vs Current



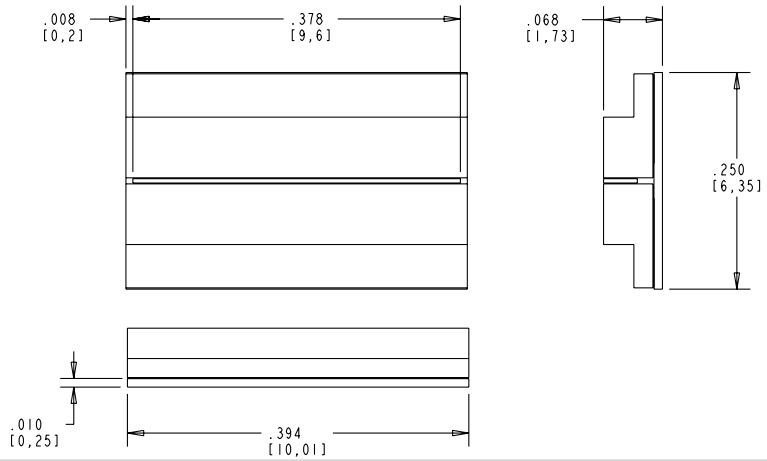
Efficiency vs Current

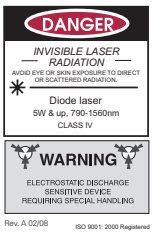


Wavelength Spectrum



MECHANICAL CHARACTERISTICS





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