# GOLDEN BULLET

## **50W QCW**

### NORTHROP GRUMMAN

### **FEATURES AND BENEFITS**



PART NUMBER: ASM232P050 GOLDEN BULLET SUBMODULE

- 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	54A at 25°C Heat Sink	50	_	W
Operating Current	50W at 25°C Heat Sink	_	54	Α
Threshold Current	25°C Heat Sink	_	12	А
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	_	_	40×10	°x°

### **ELECTRICAL CHARACTERISTICS**

Parameter	Conditions	Min	Тур	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

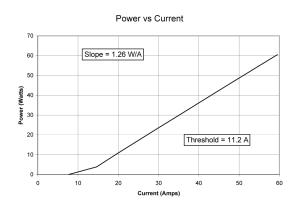
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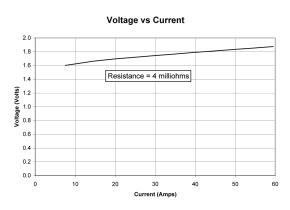
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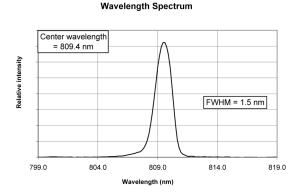
# 50W QCW

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

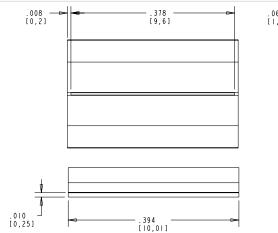


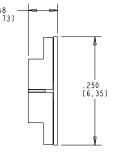


# Efficiency vs Current 60 40 40 20 10 0 10 20 30 40 50 60 Current (Amps)



### **MECHANICAL CHARACTERISTICS**





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