



**Model Number: APS-405nm-1000mW-MTM-9.0mm-CC-Cu-Au**

**APS 1000 mW 405 nm Laser Diode Gold-Coated Copper Module  
With Adjustable Aspheric Collimating Lens**

**Absolute Maximum Ratings at 25 °C**

Item	Ratings	Unit
CW Output Power	1100	mW
Laser Diode Reverse Voltage	2	V
Maximum Operating Current	1200	mA
Operating Temperature	0 to 30	°C
Storage Temperature	-40 to 85	°C

- Simple Integrated Package
- Excellent Diode Heatsinking
- Small Footprint
- Simple Connection With Two Power Leads
- Adjustable Collimating Lens
- Lightweight, Rugged
- Precision Machined

**Applications: Biomedical, Metrology,  
Displays**



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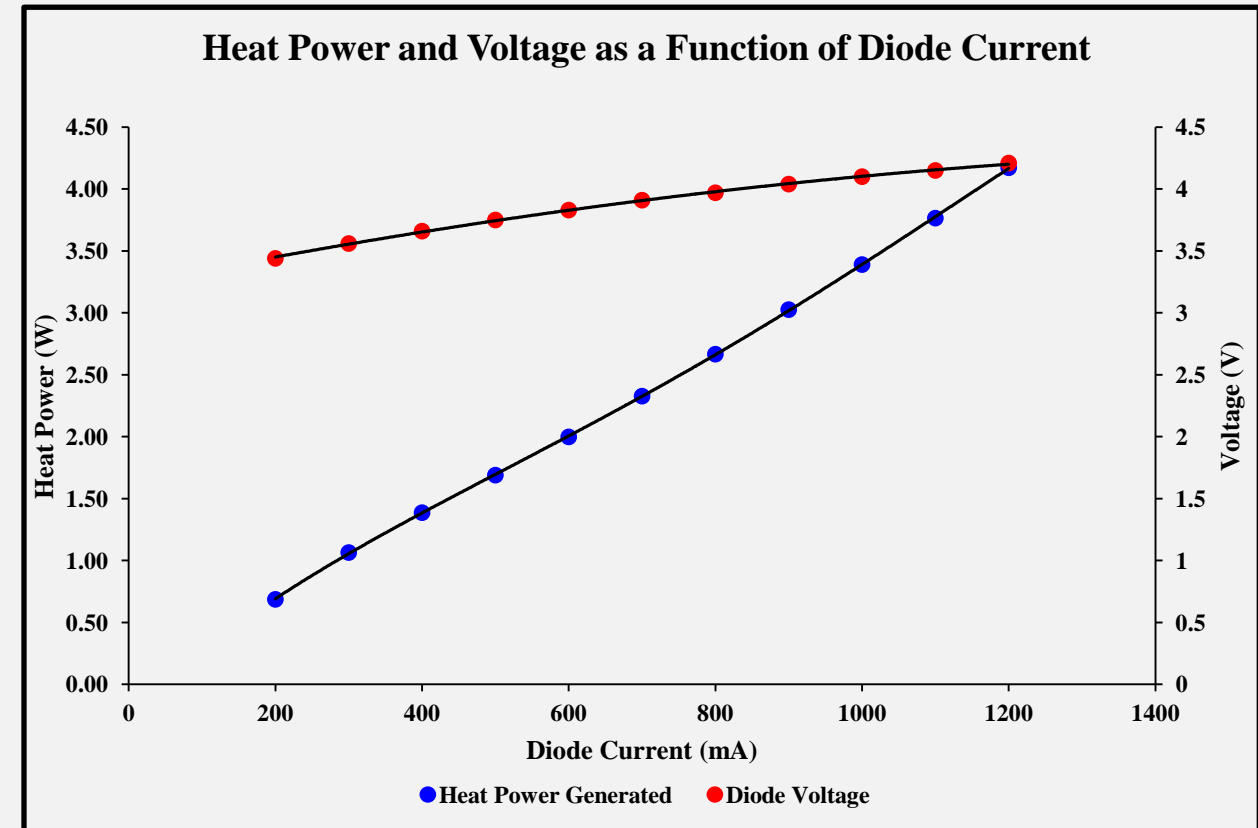
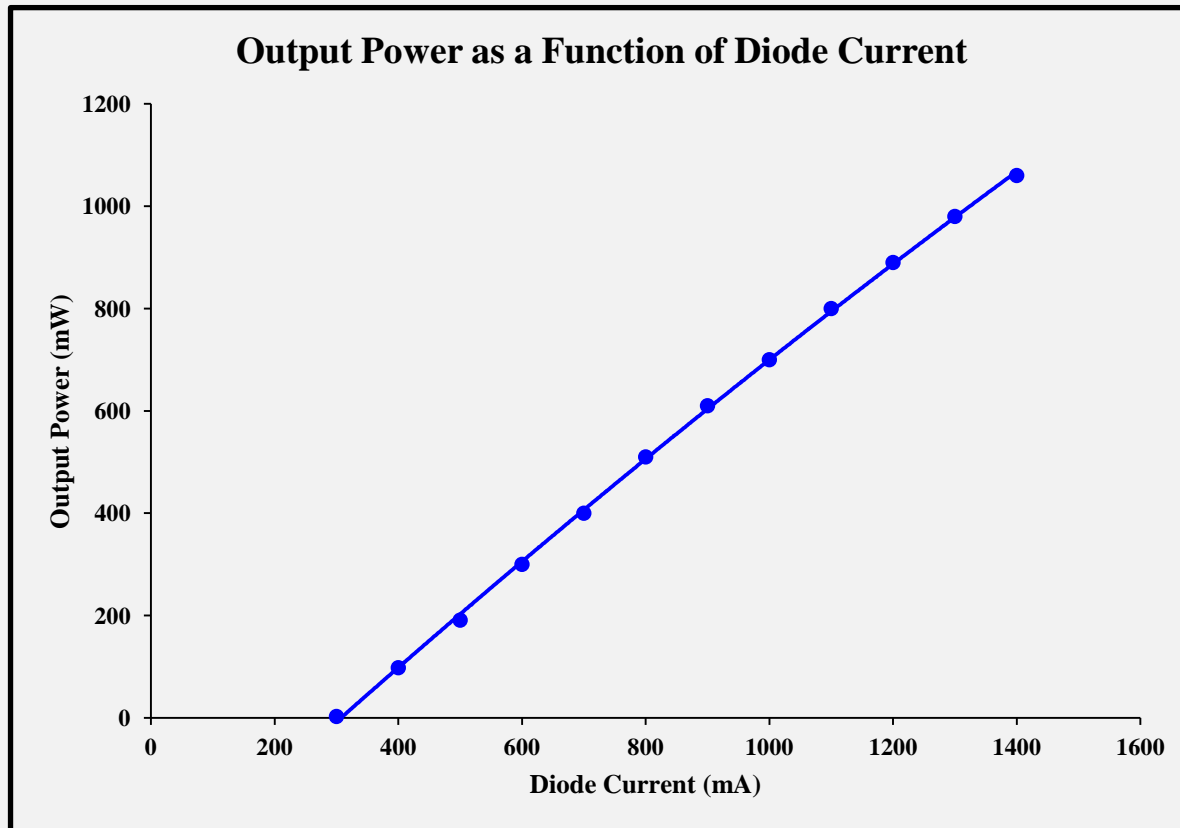


**Model Number: APS-405nm-1000mW-MTM-9.0mm-CC-Cu-Au**  
**APS 400 mW 404 nm Laser Gold-Coated Copper Diode Module**  
**With Adjustable Aspheric Collimating Lens**

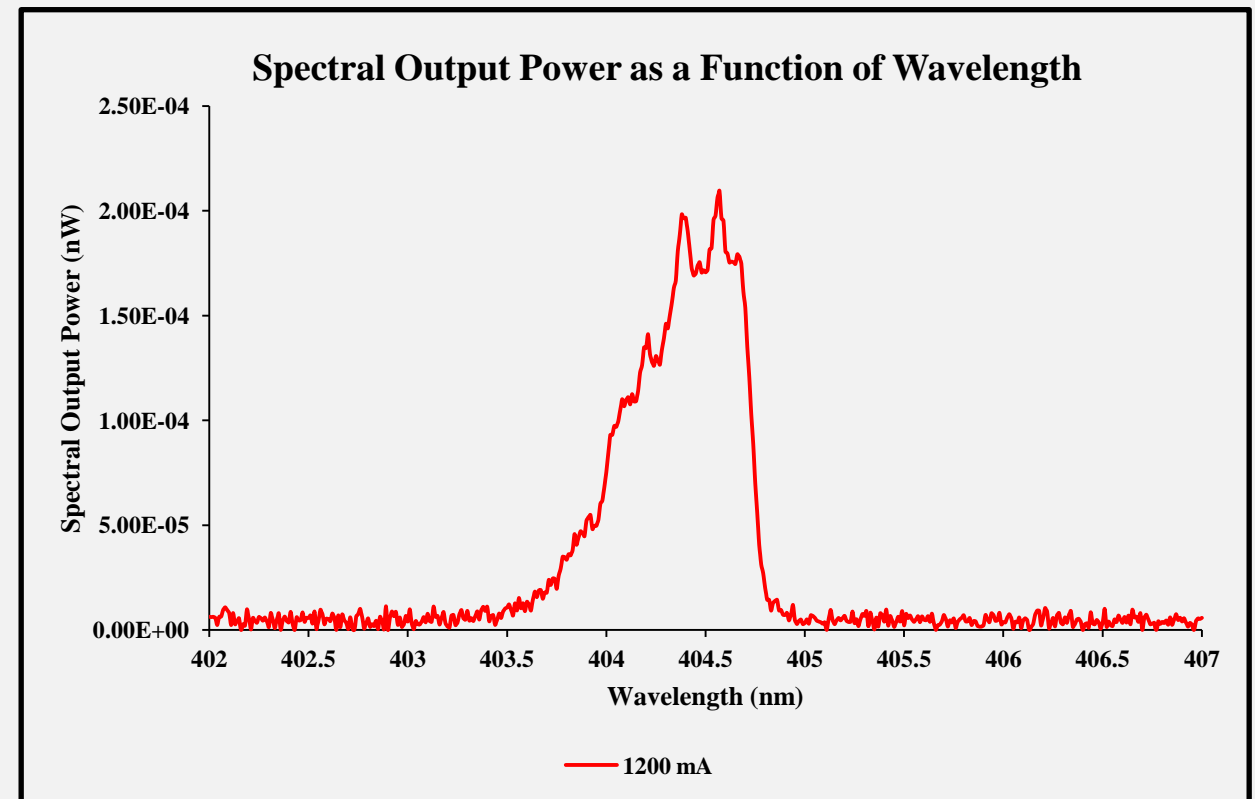
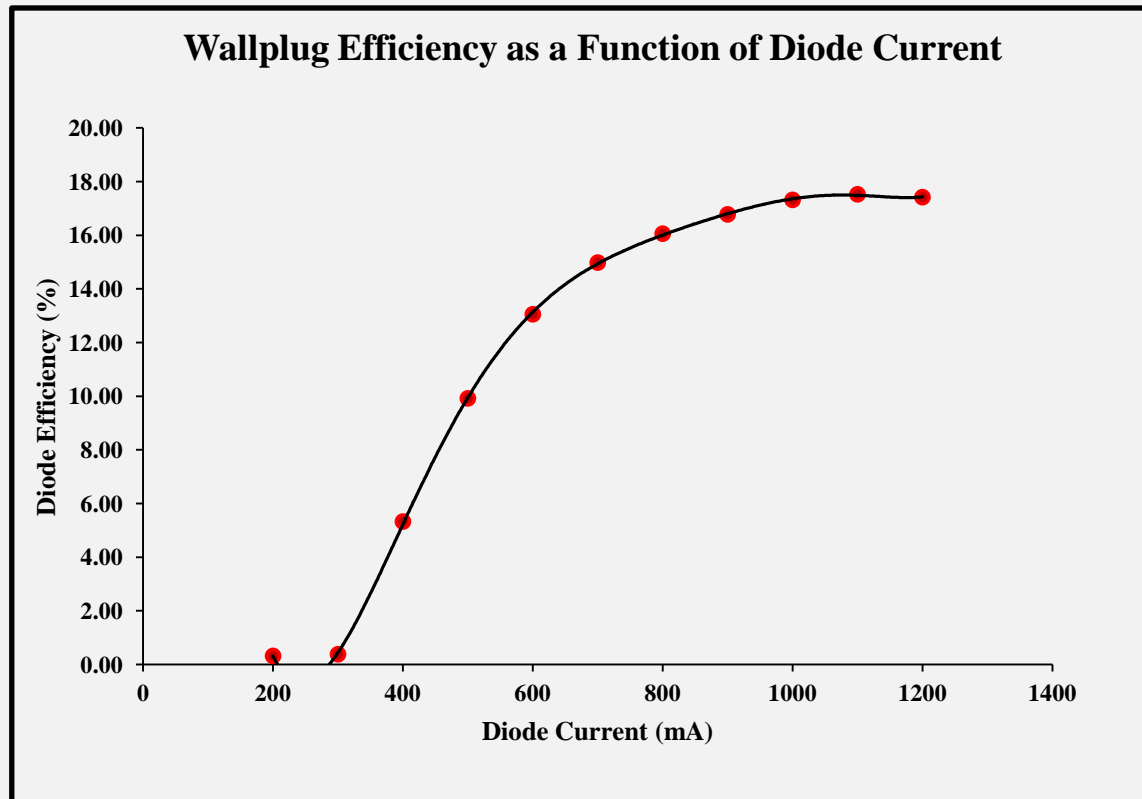
**Optical and Electrical Characteristics at 25 °C**

Parameter	Min	Typical	Max	Units	Test Condition
Threshold Current	1150	230	400	mA	-
Operating Current	700	900	1200	mA	$P_o = 400 \text{ mW}$
Operating Voltage	-	5.0	5.5	V	$P_o = 400 \text{ mW}$
Fast Axis Beam Divergence	30	45	60	°	$P_o = 400 \text{ mW}$ 1/e <sup>2</sup> Full Angle
Slow Axis Beam Divergence	5	13	25	°	$P_o = 400 \text{ mW}$ 1/e <sup>2</sup> Full Angle
Lasing Wavelength	400	405	410	nm	$P_o = 400 \text{ mW}$
Transverse Mode	MTM	MTM	MTM	-	All Currents
Polarization TE	-	-	-	-	Horizontal

## Module Experimental Data

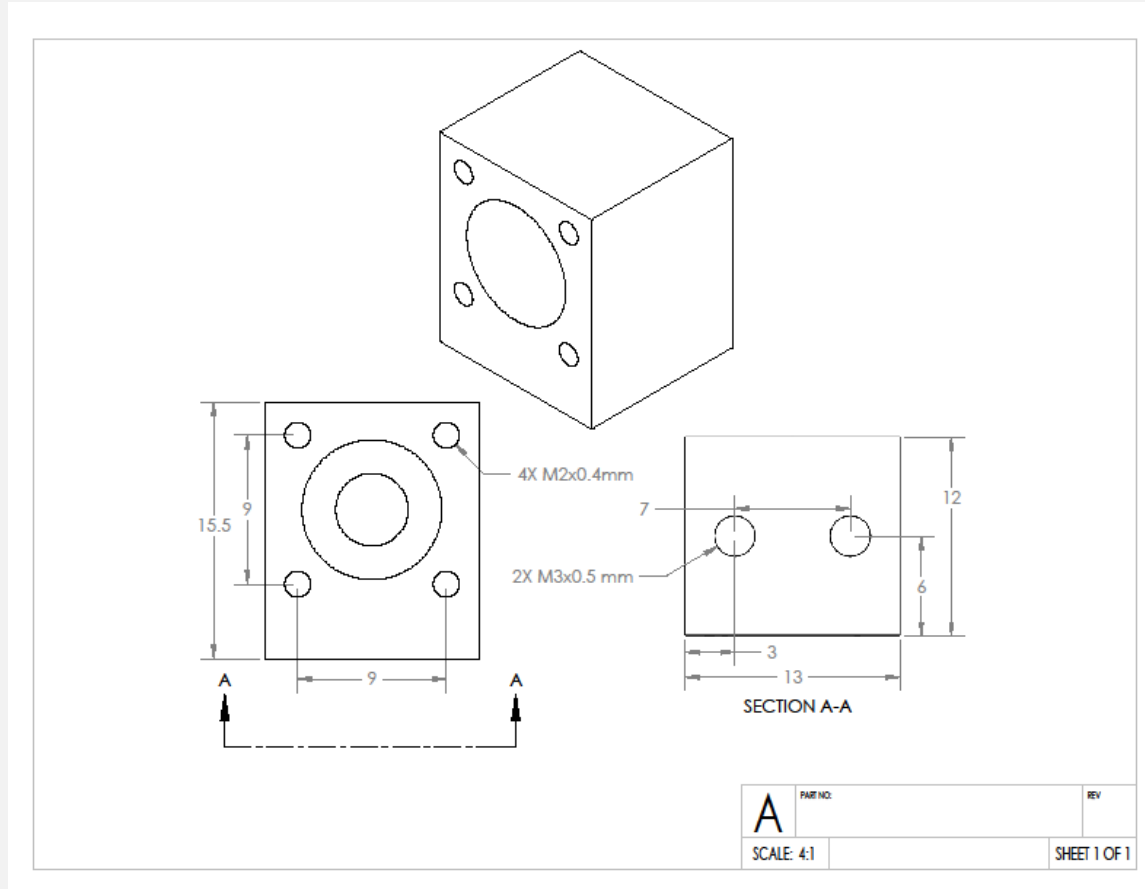


## Module Experimental Data



**Model Number: APS-405nm-1000mW-MTM-9.0mm-CC-Cu-Au**

**Module Dimensions and Mounting Screws**





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## **Laser Safety Warnings**

- **This OEM Micro-Module is meant for integration into other systems, and as such is not CDRH compliant.**
- **This Micro-Module is a Class 4 laser product.**
- **Always use laser safety glasses with sufficient Neutral Density at the operating wavelength of 405 nm to protect your eyes.**
- **Skin exposure to this laser product should be avoided.**