Model Number: APS-915nm-100mW-STM-9.0mm-CC

APS 100 mW 915 nm Laser Diode Module With Adjustable Aspheric Collimating Lens

Absolute Maximum Ratings at 25 °C

Item	Ratings	Unit
CW Output Power	100	mW
Laser Diode Reverse Voltage	2	V
Maximum Operating Current	170	mA
Operating Temperature	-20 to 50	°C
Storage Temperature	-40 to 80	°C

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

Applications: Pointing, Illumination, Sensing

Advanced Photonics Sciences, LLC. Tel.: 570-553-1120
www.advancedphotonicsciences.com
info@advancedphotonicsciences.com

Model Number: APS-915nm-100mW-STM-9.0mm-CC

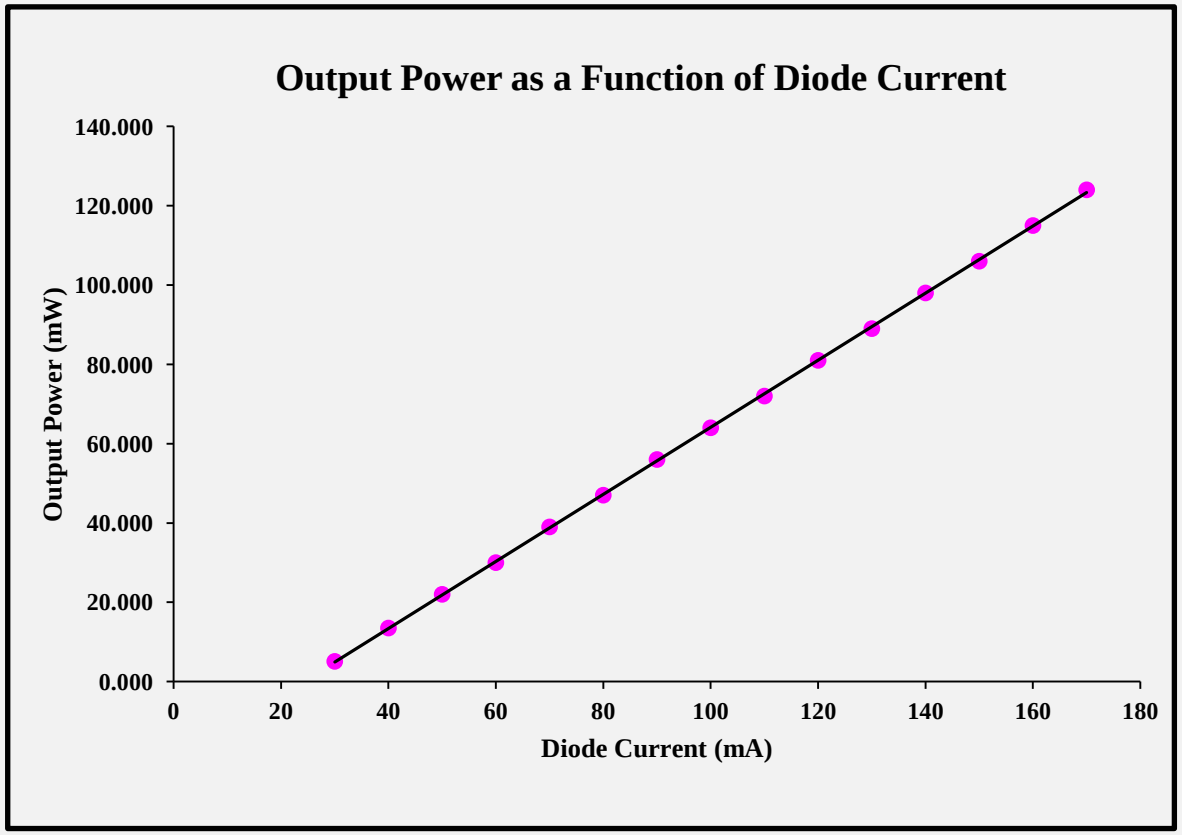
APS 100 mW 915 nm Laser Diode Module With Adjustable Aspheric Collimating Lens

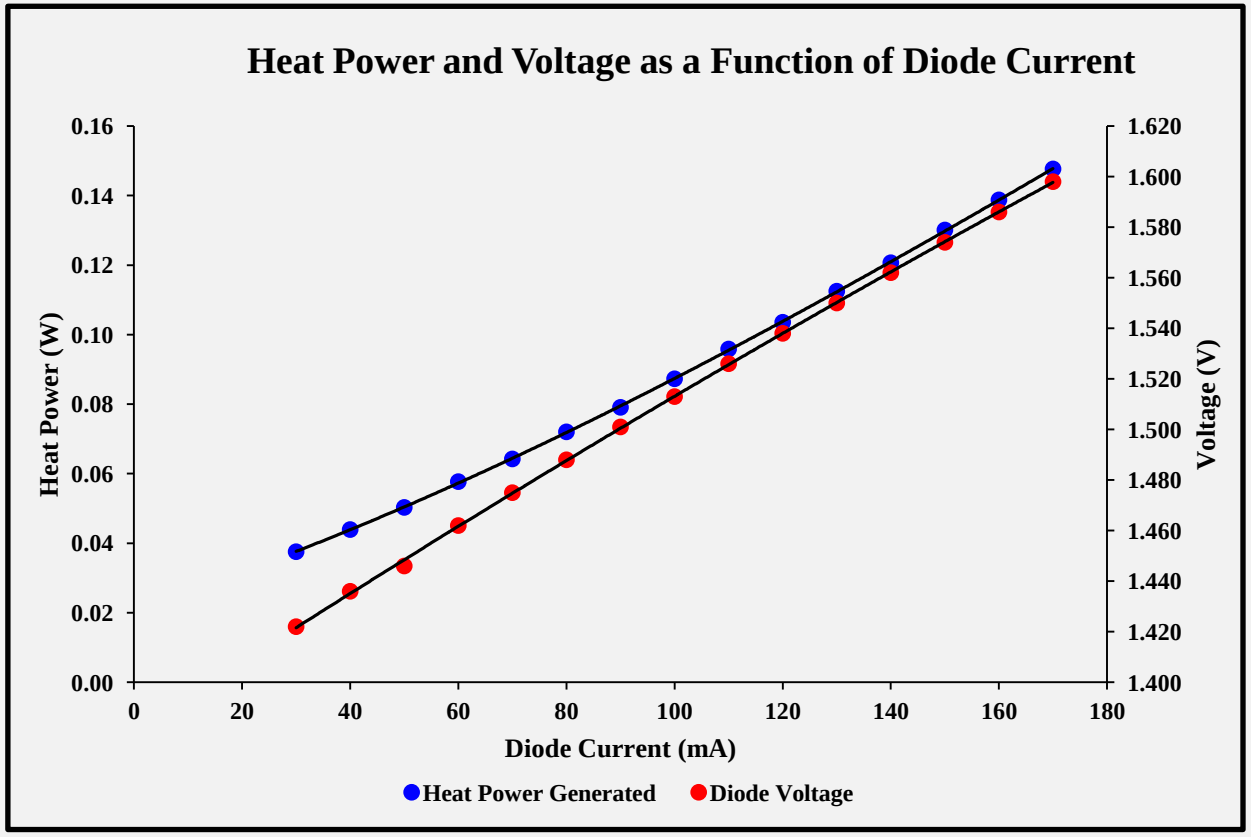
Optical and Electrical Characteristics at 25 °C

Parameter	Min	Typical	Max	Units	Test Condition
Threshold Current	-	30	50	mA	-
Operating Current	-	140	170	mA	P_o = 100 mW
Operating Voltage	-	1.9	2.2	V	P_o = 100 mW
Fast Axis Beam Divergence	-	50	54	°	P_o = 100 mW $1/e^2$ Full Angle
Slow Axis Beam Divergence	-	14	18	°	P_o = 100 mW $1/e^2$ Full Angle
Lasing Wavelength	900	905	910	nm	P_o = 100 mW
Transverse Mode	STM	STM	STM	-	All Currents
Polarization TE	-	-	-	-	Horizontal

Model Number: APS-915nm-100mW-STM-9.0mm-CC

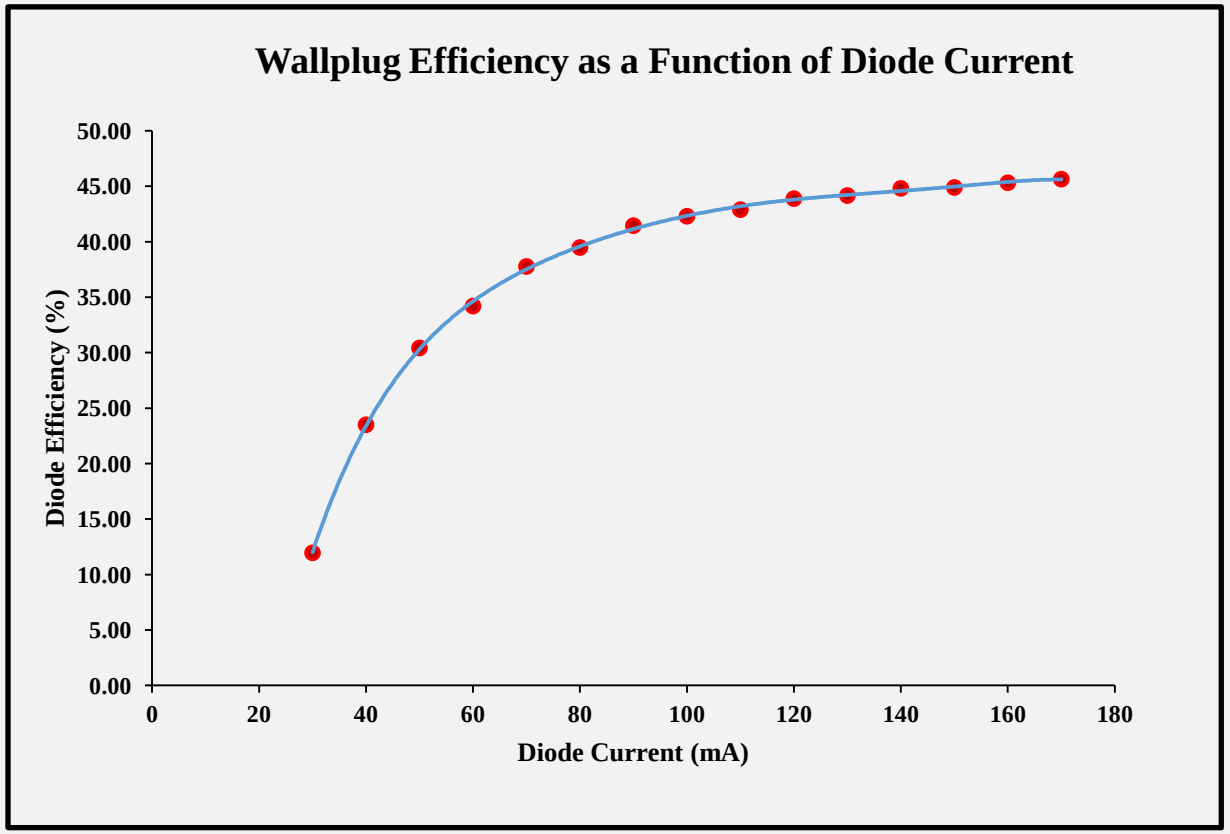
Module Experimental Data

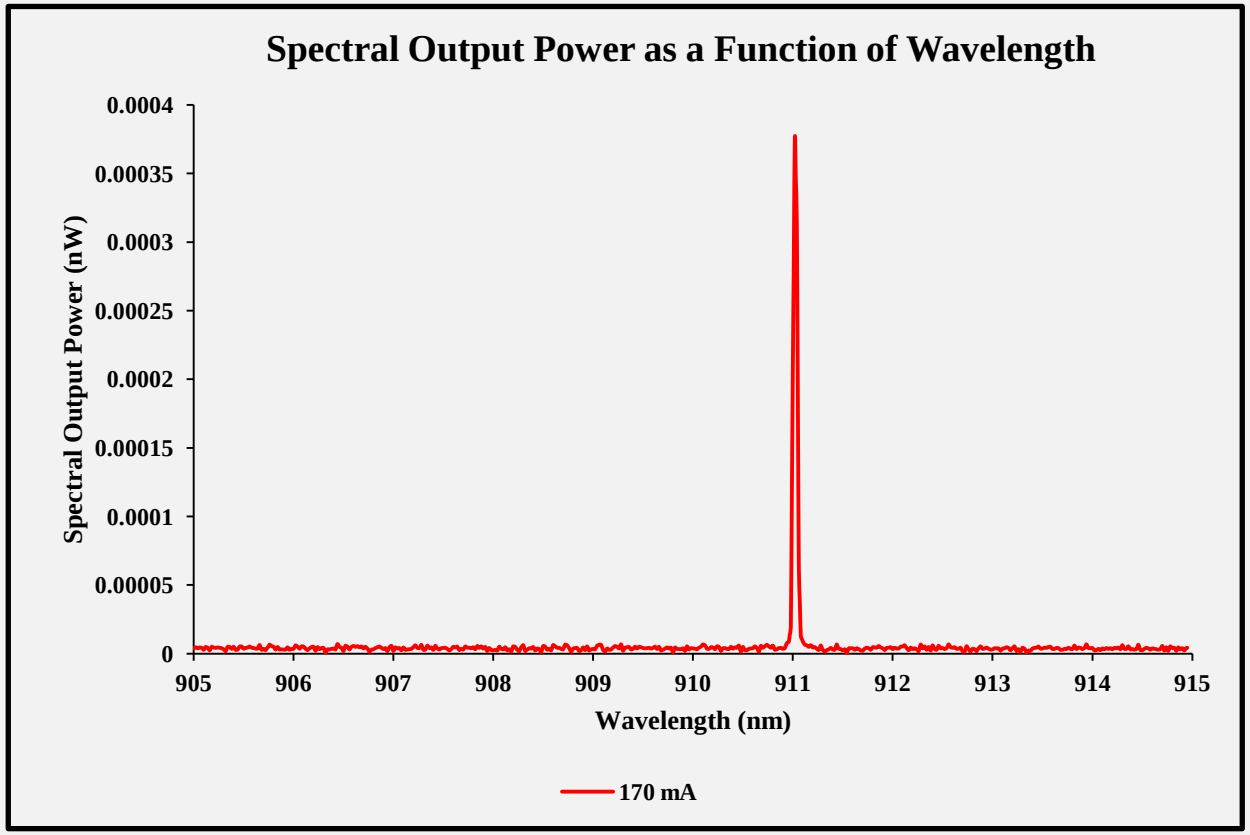




Model Number: APS-915nm-100mW-STM-9.0mm-CC

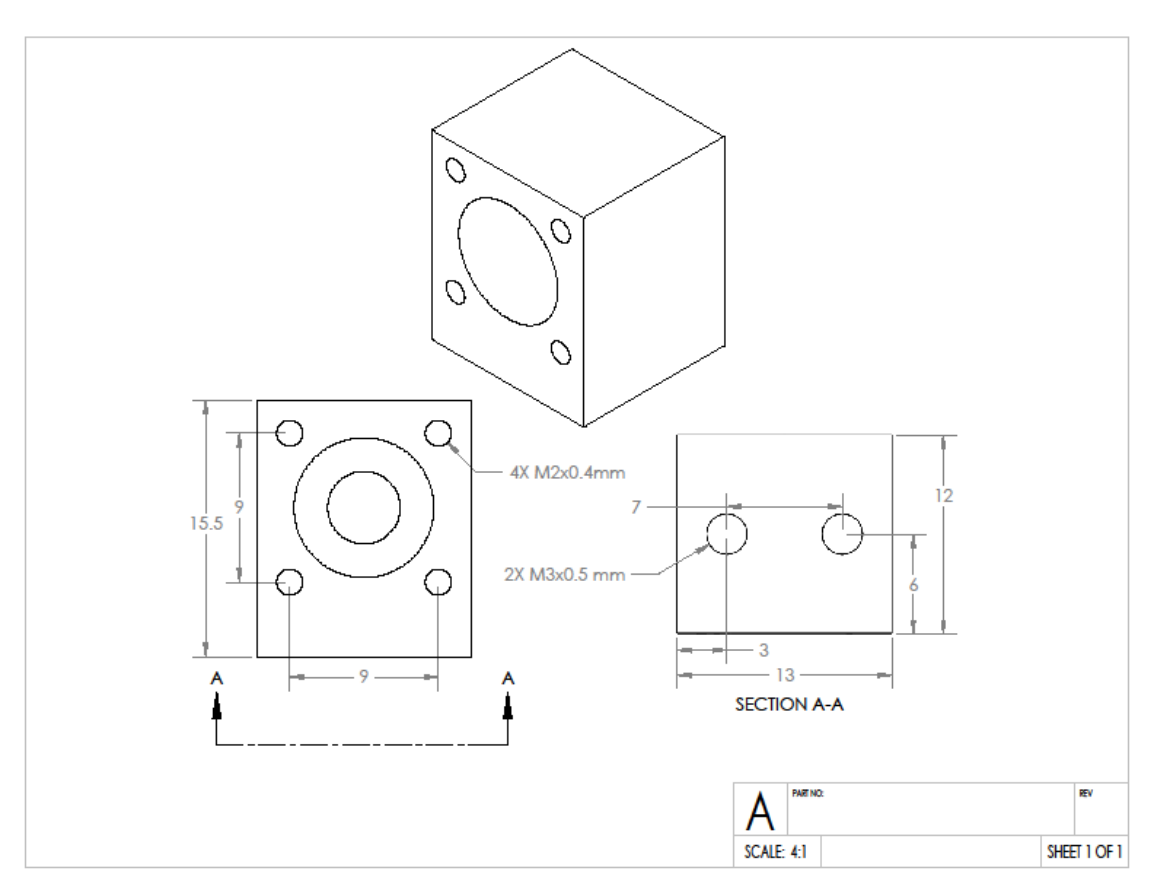
Module Experimental Data





Model Number: APS-915nm-100mW-STM-9.0mm-CC

Module Dimensions and Mounting Screws



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 IIIB laser product.**
- **Always use laser safety glasses with sufficient Neutral Density at the operating wavelength of 915 nm to protect your eyes.**
- **Skin exposure to this laser product should be avoided.**