

**Analog
Modulated**

PMA

**Compact, Analog Modulated,
20MHz Diode Laser Module**



Power Technology, Inc.'s PMA is a rugged, high-quality diode laser module that emulates an analog input signal by varying its optical output power. The PMA supports analog beam modulation from CW to 20MHz with bias currents from 0 to 200mA and modulation currents from 0 to 100mA. A benefit of analog modulation is that it allows users to adjust a laser's output to a desired level from 0 to 100%, providing added versatility and control.

quality aspheric lens that yields a collimated beam. A 6-pin connector allows for DVM compatible monitoring of the module's parameters.

In addition, the compact PMA—which measures only one inch in diameter and approximately three inches in length—promotes easy integration into your existing or emerging application. In fact, Power Technology, Inc.'s PMA is the perfect solution for any number of applications, including fluorescence, testing, and medical and biomedical procedures.

Give one of our sales engineers a call today to discuss how our PMA module can best meet the needs of your application.

The PMA offers a variety of wavelength choices ranging from 635nm to 1600nm. The module is fully self-contained with drive and control electronics, laser diode, and a high-

Features

- 20MHz analog modulation
- 200mA maximum bias current
- 100mA maximum modulation current
- Wavelengths available from 635nm to 1600nm

Benefits

- Quality glass optics
- Excellent pointing stability
- Compact size for easy OEM integration
- 6-pin connector for DVM-compatible monitoring of laser parameters

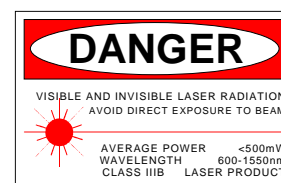
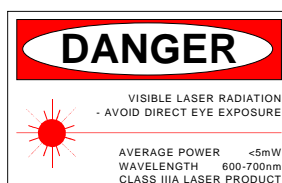
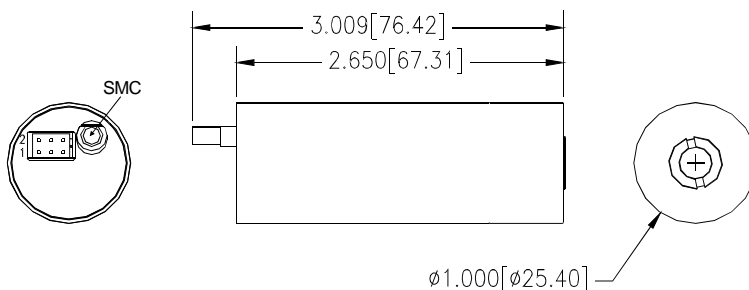
Potential Applications

- Fluorescence
- Testing
- Illumination
- Medical & biomedical procedures

Ordering Information

Visit the PTI Web site at www.powertechnology.com to see a listing of our available laser diodes. Call, fax, or email (sales@powertechnology.com) one of our experienced sales engineers for help in finding the perfect diode for your wavelength and power requirements.

Specifications	Value	Units
Modulation Trigger Signal Type	Analog	
Modulation Frequency Range	CW - 20	MHz
Maximum Modulation Rate	25	MHz @ -3dB
Dimensions (Ø x L)	3.009 x 1	mm
Maximum Bias Current	200	mA
Maximum Modulation Current	100	mA
Available Wavelengths	635 - 1600	nm
Operating Voltage	5 ± .5	V
Control Signal	0 - 1.0	V
Control Voltage Connector Type	SMC	



Power Technology, Inc.

DS_PMA 4-01