



**CW** **Laser Modules**

**PM, PMi, RS, SPM Modules**



**Features**

**PM**

- 120mA drive current
- Rugged design
- Versatile
- Diode compatibility:  
N-type & P-type in APC, All in CC

**PMi**

- 500mA operating current
- Current monitoring within 1% accuracy
- Internal temp shutoff
- Diode compatibility:  
N-type & P-type in APC, All in CC

**RS**

- Compact
- Great for cost sensitive apps.
- Wavelength choices of:  
635nm, 650nm, 670nm, and 785nm
- Diode compatibility: N-type

**SPM**

- Separated head
- Mounting flexibility
- Diode compatibility:  
N-type & P-type in APC, All in CC

Power Technology, Inc. will now offer high power Blue and Violet laser diodes for use with our PM laser module, 405 nm at 60mW, increasing cost savings and allowing for additional selection variety.

PTI's PM is an industrial-grade laser module designed for use in standard or rugged OEM environments, and contains a precision current source ideal for applications demanding durability and high output power. The PM also offers diffraction limited optical performance, small size, and operates on a low voltage of 8VDC.

For additional mounting flexibility, we offer SPM series modules that have a separated head and power supply. Members of the SPM family of lasers offer all the advantages of a PM: rugged build, aspheric glass optics, and a versatile nature. In addition, SPM series lasers feature a

separated head with a diameter of only .5 of an inch. With a diameter of only 6.99mm, the SPMB-214 is one of the smallest commonly manufactured PTI heads.

The RS is a compact module designed for your cost-sensitive application. The output power of the RS is preset to fall within the range of your desired laser class, and units that are class 3a and below are CDRH certified, provided that users connect to the power source through a switch. The RS operates in automatic power control mode. An optional factory-installed line generating lens is available that is permanently attached to the module at a fixed focal distance. No adjustment of the lens is possible. For particularly demanding applications, we recommend incorporating a heat sink into your RS.

MODULE SPECIFICATIONS	PM	PMi	RS	SPM-214	SPMB-214
Body or Head Dimensions, Ø x L, in. [mm]	.50 X 2.0 (12.57 X 50.80)	.75 X 3.2 (19.05 X 81.28)	.43 X 1.46 (10.97 X 37.01)	.50 X .62 (12.57 X 15.75)	.28 X .73 (6.99 X 18.64)
Drive Dimensions, L x W, in. [mm]	-	-	-	1.01 X .48 (25.66 X 12.2)	1.01 X .48 (25.66 X 12.2)
Operating Voltage (VDC)	3.3 - 9	3.3 - 9	3.3 - 9	3.3 - 9	3.3 - 9
Max. Operating Current (mA)	120	500	65	120	120
Max. Laser Drive Current (mA)	120	500	60	120	120
Temperature Range (°C)	-	10 - 30	-	10 - 35	10 - 35
Physical Diode Compatibility	9mm, 5.6mm	9mm, 5.6mm	9mm, 5.6mm	9mm, 5.6mm	5.6mm
Diode Compatibility	N-type & P-type in APC, All in CC	N-type & P-type in APC, All in CC	N-type	N-type & P-type in APC, All in CC	N-type & P-type in APC, All in CC
Micro lens Compatible	yes	yes	no	yes	yes
Recommended Options	D1, T	D1, T	L	C, L	G1, G7

