

## SPCO-1808-1511-F-500 pump diode module

### What are SPCO modules?

Our SPCO modules incorporate a linear diode laser array (or bar) to generate high level of optical power. We use a proprietary technique to couple the output beam of the diode laser bar into a small bundle of optical fibers without using any additional optical element, resulting in a compact, rugged, high-performance and cost-effective device.

### Standard Features:

- \* High Power
- \* Rugged construction
- \* Sealed package
- \* Industry-compatible (SPI)

### Specific Features

Our SPCO modules are direct replacement for Spectra-Physics pump diode modules. They include an internal 10 kohms NTC thermistor, and an interface PCB with on-board EEPROM and safety relay for full compatibility.



### Applications:

- \* 3D Rapid Prototyping
- \* Laser and Amplifier pumping
- \* Soldering
- \* Material processing
- \* Illumination

### Ordering Information:      **SPCO-1808-1511-F-500**

### General specifications:

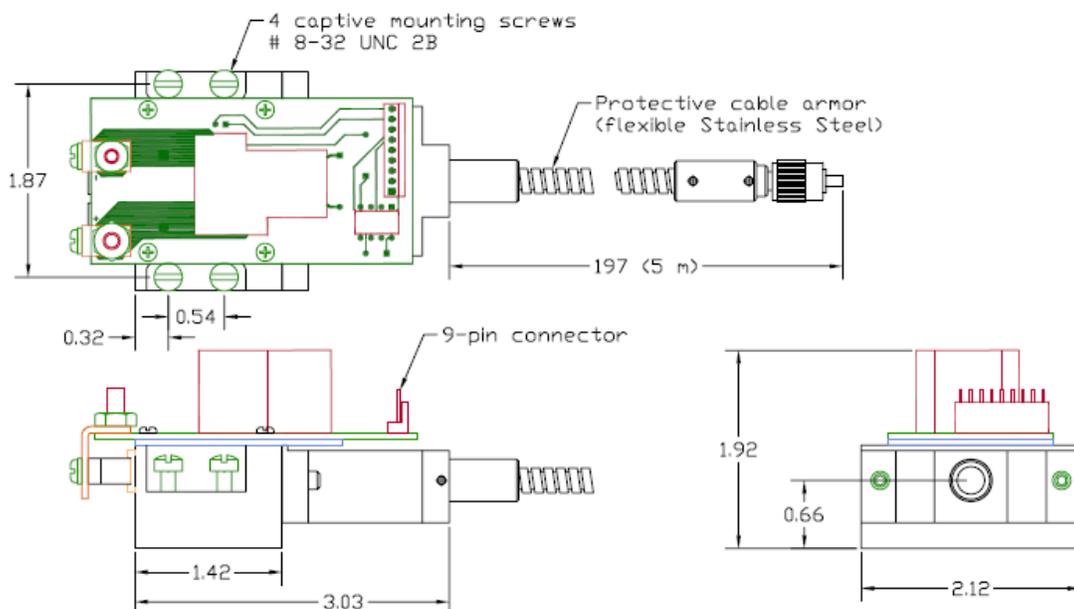
Wavelength:	808 $\pm$ 3 nm	Fiber Diameter	1.10 $\pm$ 0.05 mm
Delivered Power:	Up to 15 W cw	Fiber Numerical Aperture:	0.12
Compliance Voltage:	2.5 V maximum	Fiber Length:	5m
Drive Current	40 A maximum	Fiber Protection	SS cable armor, 6.5-mm OD
Operating current (TYP):	22A (15W)	Operating Temperature	15 C to 35C

### Disclaimer:

This laser product is designated solely as an OEM component to be incorporated into a Spectra Physics laser product. Therefore, it does not comply with the appropriate requirements of FDA 21CFR, section 1040.10 and 1040.11 for complete laser system

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### Mechanical Outline Drawing (Dimensions in inches)



### Optical and Electrical Characteristics (T=25°C):

Optical Output Power	15 W MAX
Threshold Current	< 10.0 (8.0 TYP)
Slope	> 0.75 (1.00 TYP)
Operating Current (Amp) @ 15W	< 30.0 (24.0 TYP)
Operating Case Temperature	15 C to 35 C
Operating Voltage (Volt) @ 15W	2.2 MAX
Center Wavelength (nm) @ 15W / 25C	808.0 +/-3
Linewidth FWHM (nm)	< 3.5 (2.0 TYP)
Fiber Core Diameter	1100 ±20 micron
Fiber Numerical Aperture	0.12 ±0.02
Fiber Output Connector	FC
Fiber length	5 ±0.2m

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