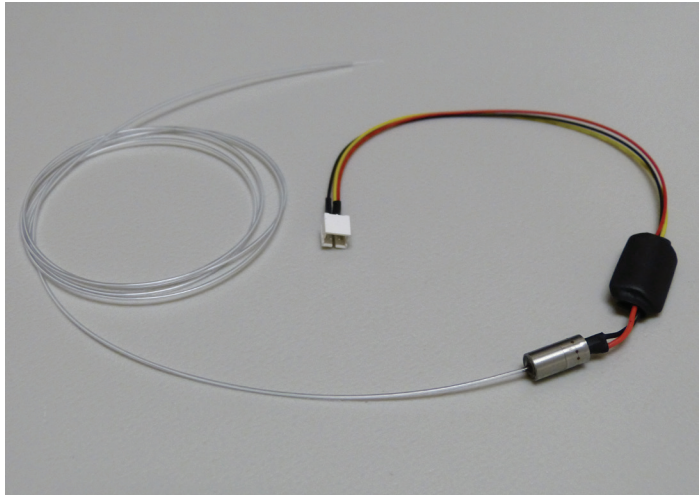




## Single Color Mini Module

Versalume's Single Color Mini Module is available in three primary colors: red, green or blue. This small, compact integrated laser source and driver board comes pre-assembled with one meter of Corning® Fibrance® Light-Diffusing Fiber. The JST connector is compatible with standard LiPo batteries. Removing the JST connector allows for light intensity variation via Pulse Width



Modulation using the yellow control wire. The Single Color Mini Module is the perfect solution for integrating light into tight spaces as well as for exploring other unique design concepts.

### Product Attributes

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#### Optical and Electrical

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Laser Color	Red	Green	Blue
Nominal Wavelength	639 nm	515 nm	450 nm
Laser Power Output	<20 mW	<10 mW	<20mW
Operating Voltage Input	3.7 ± 0.5 VDC		
Electrical Connector	JST 2 pin Male		
Laser Mode	Continuous Wave		
Control Interface	Pulse Width Modulation		
Fiber Length	1 m		
Circuit Protection	Static, Surge, Reverse Polarity		

#### Environmental and Regulatory

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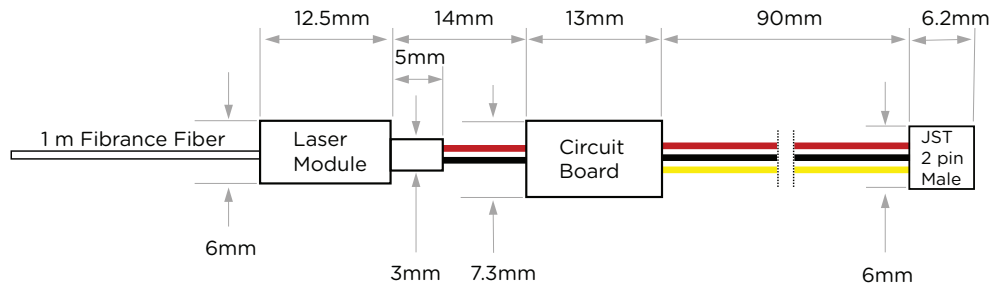
Regulatory (pending)	CDRH Class IIIa (IEC Class 3R) Laser, ROHS Compatible
MTBF	6000 hrs at 25°C Nominal
Case Operating Temp Range	-10 to + 50°C
Storage Temperature Range	-20 to + 60°C

## Mechanical Drawings

Red wire:  $+3.0 \pm 0.5$  VDC

Black wire: GND

Yellow wire (connector detached): PWM light intensity control using up to 1 KHz TTL signal, active high



### Note

Avoid exposure to direct or reflected light from fiber tip. To avoid damage to fiber on module, do not pinch or bend fiber around sharp corners.

Never use the Mini Module in the event that the fiber is damaged or broken.

Extra care must be taken if the user chooses to cut the fiber shorter than the provided length as the power at the fiber tip can be significantly higher than intended by design.



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