



Specification Sheet
05.2018

Single-Color Laser



Versalume Single-Color Lasers are light sources designed and optimized for use with Corning® Fibrance® Light-Diffusing Fiber. These lasers are available in red, green, and blue colors to unleash the brilliant possibilities of Fibrance technology. Each laser has a Fiber Optic connector receptacle for attaching connectorized Fibrance Light-Diffusing Fiber or Fibrance Transport Fiber. The unit is powered via a USB type-A connector supplying 5VDC.

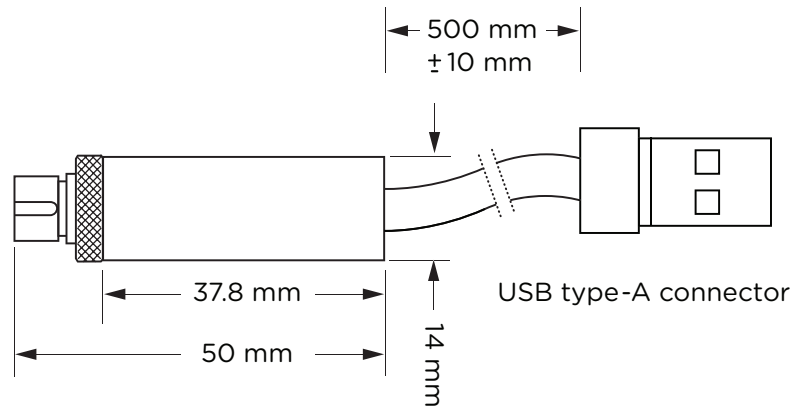
Product Attributes

Optical and Electrical

Laser Color	Red	Green	Blue
Nominal Wavelength	638 nm \pm 5 nm	520 nm \pm 5 nm	450 nm \pm 5 nm
Optical Power Output	\leq 20 mW		
Operating Voltage Input (Nominal)	5.0VDC		
Electrical Connector	USB Type-A Male		
Operating Current	< 90 mA	< 180 mA	< 120 mA
Laser Mode	Continuous wavelength		
Numerical Aperture	0.22 NA		
Connector Receptacle	FC		
Control Interface	Auto Constant Current		
Circuit Protection	Static, Surge, Reverse Polarity		

Environmental and Regulatory

Regulatory	CDRH Class 3R Laser Product, ROHS Compatible
MTBF	8000 hrs at 25 °C Nominal
Case Operating Temp Range	-10 to + 50°C
Storage Temperature Range	-40 to + 80°C



Notes

The light emitted from these sources exceed the exposure limits associated with the eye. As such, direct exposure to the eye could cause permanent damage to your eye sight. However, with proper use, the risk of injury is unlikely. Read and follow these safety precautions when using laser sources.

- Before turning on the laser, always be sure that it is pointed away from yourself and others. Never direct a laser output at another person.
- Before turning on the laser, always be sure that it is connected to a length of Fibrance® Light-Diffusing Fiber of a length greater than or equal to one diffusion length.
- Never look directly into a laser source.
- Follow the same rules for direct reflections of laser light from reflective surfaces.
- This laser does not produce a collimated beam.


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See the world in a different light

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