

BLMS mini SLD Light Sources Technical Product Specification



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Revision: 002



Product description:

BLMS mini is an SLD light source which combines a fiber pigtailed SLD module, a high precision current and temperature controller, and an optional optical isolator in one compact and easy-to-use device. Each product is custom made with the SLD module of your choice (please refer to the SLD product page at www.superlumdiodes.com/superluminescent-diodes.htm to select an SLD module for your application).

The light source has an I/O interface for remote control and monitoring (a DB-25M connector for the Standard-I/O Version of BLMS mini, and a USB Mini-AB connector for the Alternate-I/O Version of BLMS mini). The Standard-I/O Version, designed for integration with customers' systems, provides a simple interface based on TTL level input/output and analog output signals via a DB-25M connector. The Alternate-I/O Version is equipped with a USB interface (Mini-AB connector) and can be operated remotely from a PC or laptop.

Features:

- Custom-made product with the SLD module of your choice.
- Built-in current driver and temperature controller.
- High stability of drive current control over a range of 0 mA to 400 mA.
- High stability of temperature control over a range of +10 °C to +40 °C.
- High and low output power modes.
- Built-in optical isolator (optional).
- FC/APC fiber optic connector.
- Soft-start SLD protection circuit.
- I/O interface for remote control and monitoring.

Package Content:

- BLMS mini SLD Light Source.
- Optical patch cable.
- AC/DC adapter (optional).

Physical specifications:

- Overall dimensions (WxDxH): 196 x 158 x 33.44 mm (7.72 x 6.22 x 1.32 inches).
- Weight: 0.5 kg.

Electrical power specifications:

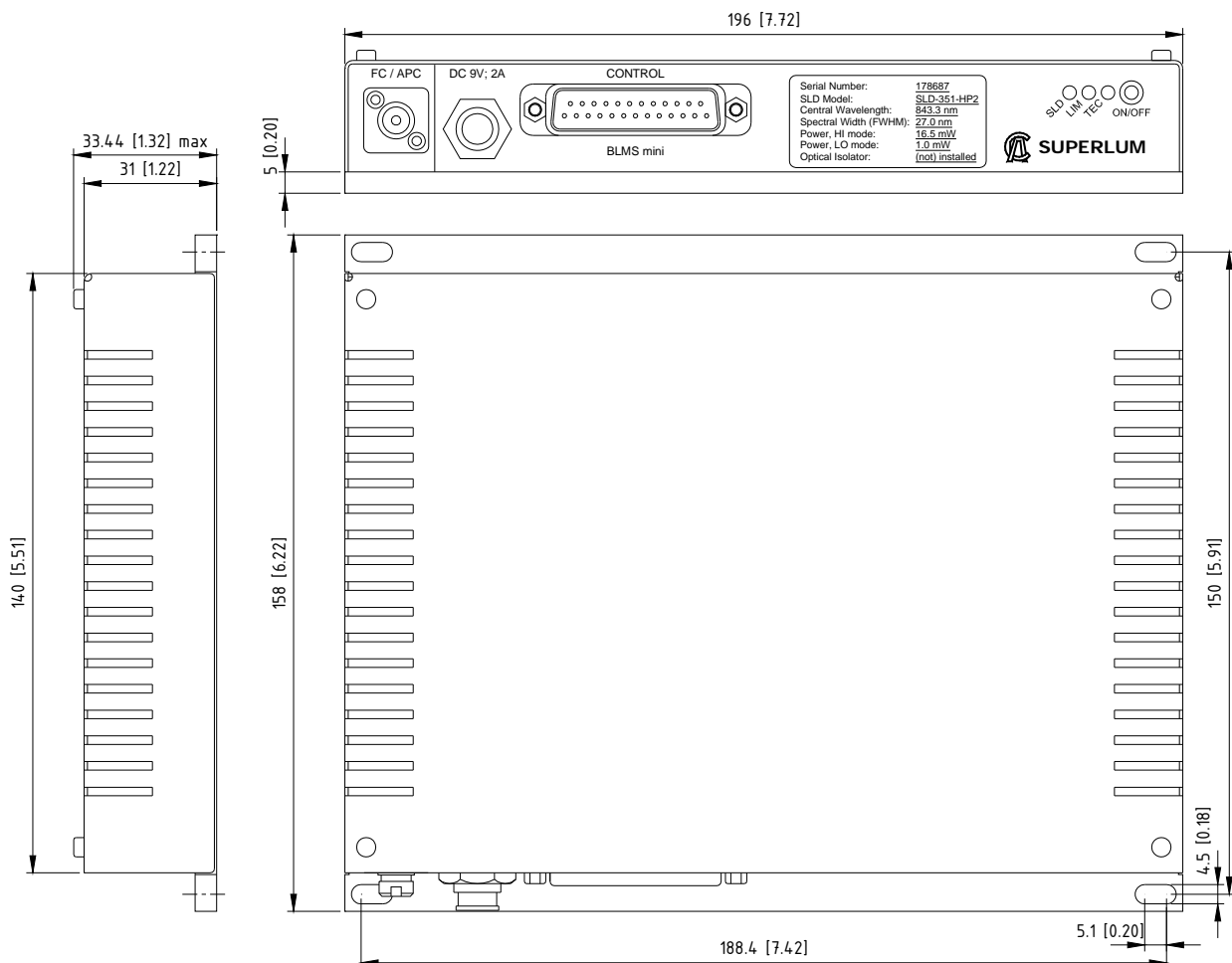
- +9V DC, 2A, ripple and noise of 20 mV (peak-to-peak) maximum. Please double check that ripple and noise are low if you are planning to use a switching-mode power supply.

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Environmental Specifications:

- Operating temperature range: 0 °C to +40 °C.
- Storage temperature range: -30 °C to +70 °C.

Dimensional Drawing for Standard-I/O Version of BLMS mini (DB-25M Connector):

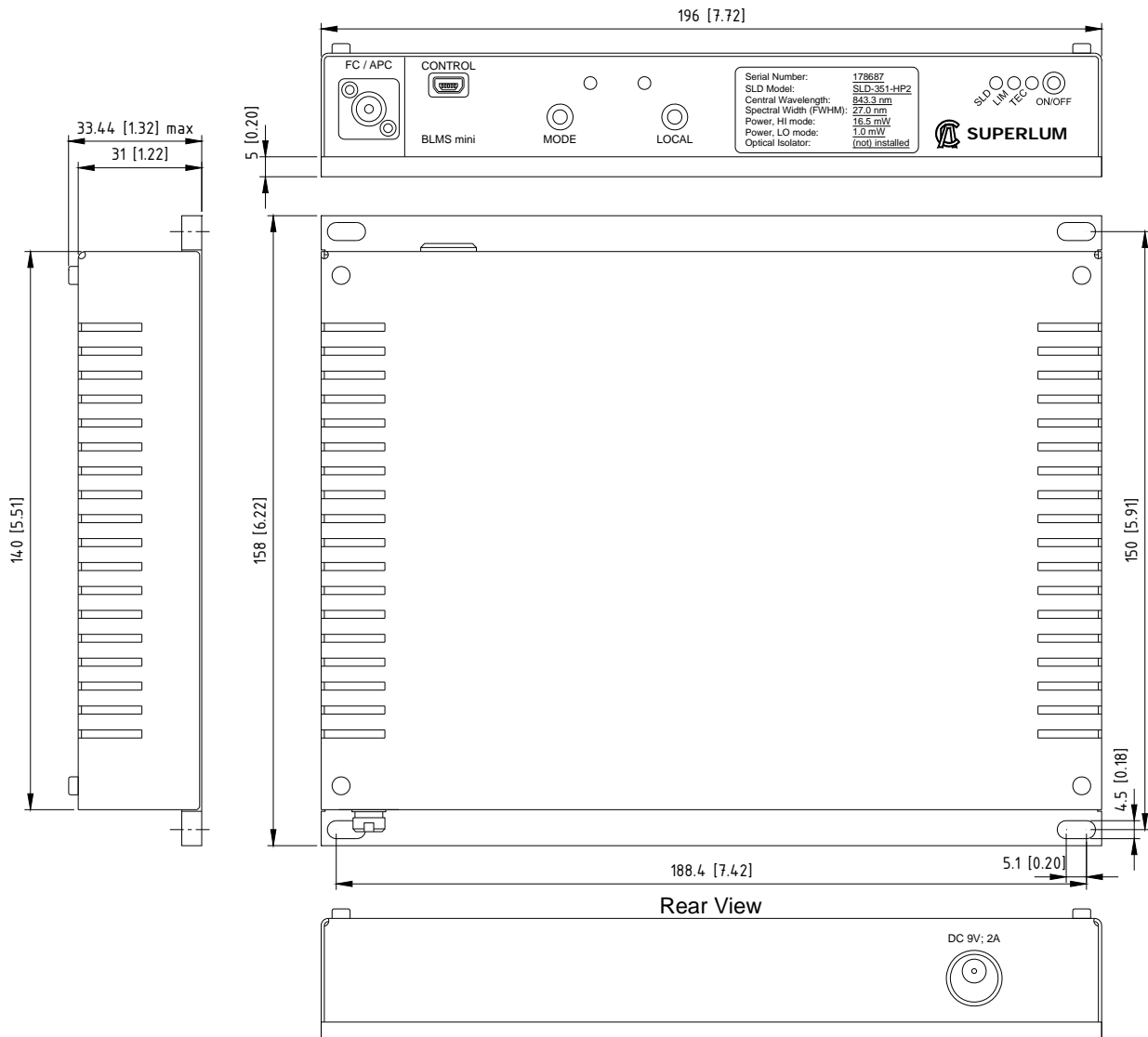


All dimensions are in millimeters [inches].

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Dimensional Drawing for Alternate-I/O Version of BLMS mini (USB Mini-AB Connector):



All dimensions are in millimeters [inches].

All specifications are subject to change without notice.