


Line Laser Module

CLM 0008-67



Characteristics:

- Solid build for industrial use
- Compact
- Potential-free Housing
- Operating Voltage 3.5 - 5.5 VDC
- Reverse Polarity Protected
- ESD Protected
- Laser Class 2M
- Focus Factory-set
- UL-Recognized (c ) and FDA Acknowledged

Abstract

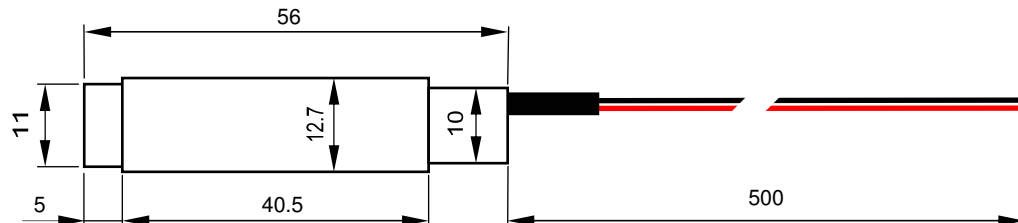
The user friendly line laser module CLM 0008-67 is noted for its solid and compact execution. The high-quality, potted driver electronics provide soft start and protection of the laser diode against over-current and transients and is thus ideal for use in an environment where system reliability is essential. The module generates a homogenous laser line with a wavelength of 635nm. The optical power and the line focus are factory-set.

Technical Data

Line Laser Module CLM 0008-67		
Operating Voltage (reverse polarity protected)	3.5 ... 5.5	V _{dc}
Laser Output Power Stability	<1	%/V
Operating Current (@ U _{max} / @ U _{min})	≤ 70 / 95	mA
ESD- Protection	2	kV
Admissible Transient Energy (10/1000μs)	0.3	J
Wavelength	635 (-10/+5)	nm
Optical Output Power of Laser Diode	≤ 10	mW
Optical Output Power (aperture Ø 7 mm at 100 mm from source)	≤ 1	mW
Irradiance (aperture Ø 7 mm at 100 mm from source)	≤ 25.45	W/m ²
Safety Shutdown (on over-current and monitor diode failure)	< 250	μs
Emission	cw	
Profile/Energy Distribution	Linie with Gaussian Profile*	
Fan Angle	18	deg.
Line Length (@ focal distance)	min. 30	mm
Focal Distance	110 (±5%)	mm
Laser Class (according IEC 60825-1:2007)	2M	
Operating Temperature	0 ... +40	°C
Wire Gauge	AWG 24, i.e. 0.22	mm ²
Outer Housing Material	Polyoxymethylen (ISO1043-1 POM)	
Weight	ca. 23	g
Certifications	UL (E322772), FDA (CDRH/21CFR)	

*Limited by a diaphragm. Unless otherwise noted, all data given in the table above are typical figures measured at room temperature.

Connecting Diagram and Module Dimensions



Red Wire = Vcc (+)
Black Wire = GND

Operating Voltage: 3.5 to 5.5 Volt DC (use regulated power supply)

Current Consumption: < 95mA

Reverse Polarity Protected: Yes

All dimensions are in millimetres.

Laser Warning:

Caution - Visible laser radiation is emitted from the front aperture. Do not stare into the beam/laser line and do not view directly with optical instruments such as magnifiers, binoculars etc. from a distance <100mm from the aperture.

Caution - Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Note: This laser product complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

