

## **Diode Laser Concepts, Inc.**

Product Specifications, Line 511322-0009 Rev 1

Doc Revision: 1 Status: Released Date: 7/10/2018 Sheet 1 of 3

Re	. Author	Revision History	Date
1	Shane Nelson	Specification Sheet Origination	July 10, 2018

Req.	Department	Approvals	Date
	Engineering	Shane Nelson	July 10, 2018
	General Management	Mike Robinson	July 10, 2018



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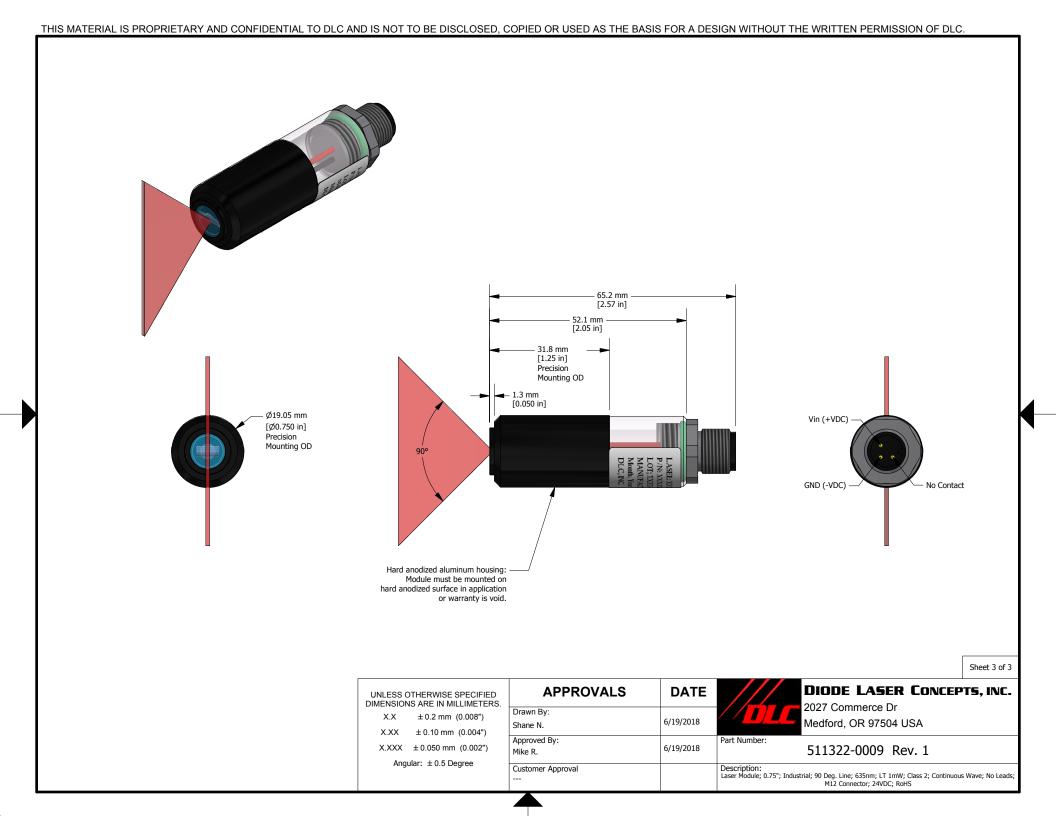
PRODUCT DESCRIPTION:				
Laser Module; 0.75"; Industrial; 90 Deg. Line; 635nm; LT 1mW; Class 2; Continuous Wave; No Leads; M12 Connector; 24VDC; RoHS				
OPTICAL SPECIFICATIONS (A	PTICAL SPECIFICATIONS (At 25°C)			
Wavelength:	635nm, ±5nm <sup>1</sup>			
Wavelength Stability:	0.25nm / °C <sup>2</sup>			
Power Output:	5.5mW, ±1.0mW <sup>3</sup>			
Power Output Stability:	< 1% Fluctuations over 15 minutes 4			
Power Output vs. Temperature:	< 1.0% / °C <sup>2</sup>			
Beam Propagation:	Collimated Line			
Fan Angle:	90° <sup>2</sup>			
Line Thickness:	1.5mm <sup>2, 5</sup> at 1m from front of module			
	4mm <sup>2, 5</sup> at 4m from front of module			
	7mm <sup>2, 5</sup> at 8m from front of module			
Pointing Accuracy:	≤ 2mrads <sup>6</sup>			
Window:	Sapphire			
Emission Indicator:	Red			
ELECTRICAL SPECIFICATIONS (At 25°C)				
Operating Voltage:	24VDC, ±2VDC			
Typical Load Current:	10mA <sup>2</sup>			
Max. Load Current:	Inrush Max: 200mA Operating Max: 75mA			
Operation Mode:	Continuous Wave Turn on Time: < 0.1sec			
Interconnect:	M12 Lumberg Connector			
Electronic Protection:	Reverse Polarity Protection Surge Protection Max Static Discharge Immunity: 4kV [contact]			

ENVIRONMENTAL SPECIFICAT	VIRONMENTAL SPECIFICATIONS		
Operating Temperature:	-10 to 50 °C		
Storage Temperature:	-40°C to 85 °C		
Required Thermal Heat Dissipation:	0.5W		
Dust and Water Protection:	IP54 <sup>7</sup>		
RELIABILITY / REGULATORY	SPECIFICATIONS (At 25°C)		
Laser Lifetime (CW Mode):	> 16,000hrs <sup>1</sup>		
Laser Safety Classification:	Class II Laser Product		
Certifications:	CE, CDRH, RoHS Compliant		
Warranty:	2 Year		
TESTING / DATA SHEETS			
Data Sheet Requirements:	None		

## **Notes**

- <sup>1</sup> Per laser diode manufacturer specification.
- <sup>2</sup> Nominal specification.
- <sup>3</sup> Total output power at face.

- <sup>4</sup> After laser warmup period.
  <sup>5</sup> Measured visually at center of line using standard rule.
  <sup>6</sup> Measured radially from mechanical, cylindrical axis normal to line length.
- <sup>7</sup> Designed to meet.



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