

MECHANICAL SPECIFICATIONS

Laser Material: InGaAlP
 Housing Material: Aluminum*
 Type III Class 2 Black Anodized
 Exit Aperture Protection: Sapphire Window
 Lens Material: Glass

OPTICAL SPECIFICATIONS

Wavelength (25°C): Various within the range of 630nm - 830nm*
 Wavelength Stability: 0.25nm / °C (Nominal)
 Output Power (Exit Aperture): Varies with specific laser choice and fan angle*
 Output Power Stability (25°C): <1% Fluctuation over 60 Minutes
 Output Power vs. Temperature: <0.5% / °C (Nominal)
 Fan Angle: 10°, 45°, 60°, 90° (Nominal)*
 Line Thickness : ~1mm at 1 Meter (varies with lens and focus)*
 Line Intensity Profile: Gaussian
 Emissions Indicator: Red LED

POINTING SPECIFICATIONS

Accuracy: <2mrad
 Stability vs. Temperature: <10µrad / °C

ELECTRICAL SPECIFICATIONS

Operating Voltage: 5VDC Regulated +/- 1% * (24VDC option available)
 Load Current –Typical at 25°C: Varies with Output Power and Wavelength
 Load Current –Max. at 25°C: Varies with Output Power and Wavelength
 Continuous Wave: Turn on Time <0.1s
 Case: Electrically Isolated
 Electronic Protection: Reverse Polarity Protection
 Over Voltage Protection
 Surge Protection
 Interconnect: IP68 M12 X 1 Male Receptacle (Standard)
 (See Drawing) 2.5mm Male DC Power Jack (Option)

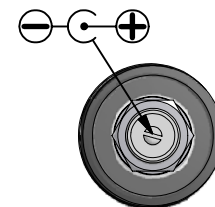
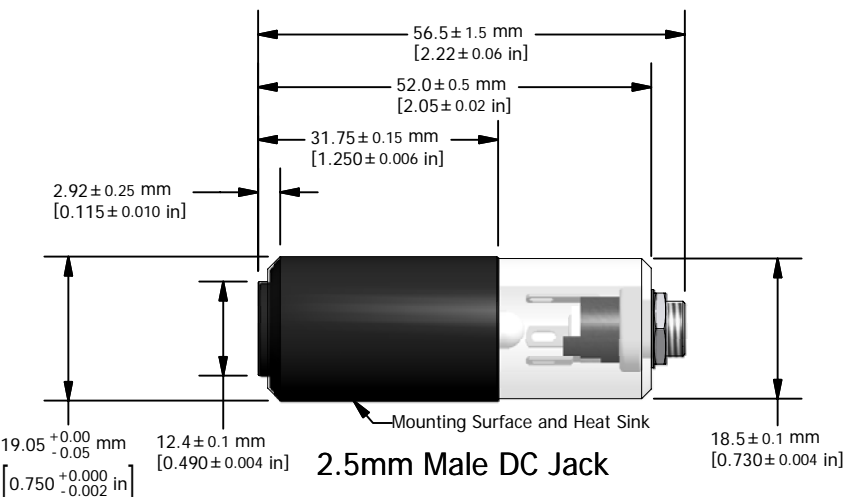
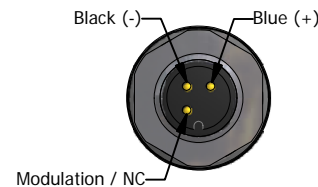
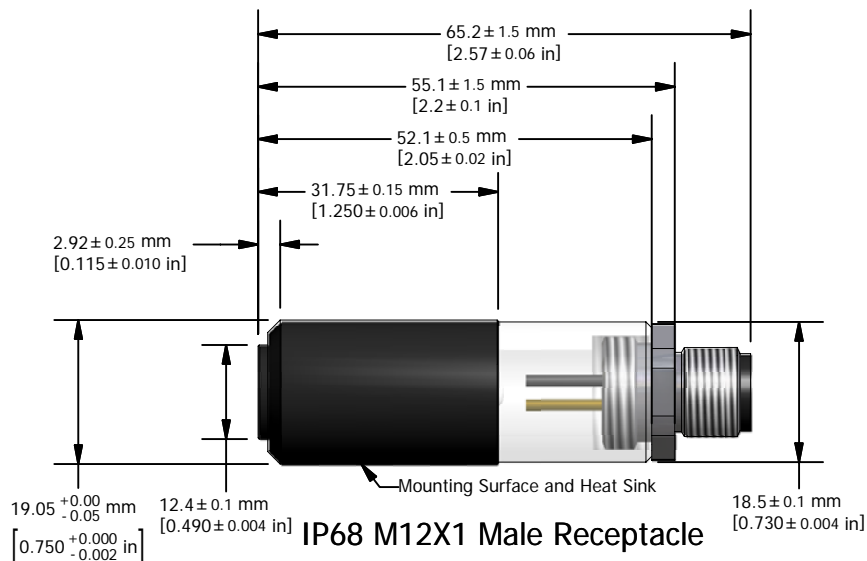
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: -10 to 50°C (60°C, 70°, 80°C) *
 Storage Temperature: -40°C to 85°C
 Static Discharge Immunity: >12Kv (Contact)
 Dust/Water Resistance: Yes

RELIABILITY/REGULATORY SPECIFICATIONS

Certifications: RoHS compliance
 CE
 CDRH Class Dependant Upon Output Power and Wavelength
 Warranty: 2 Years

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
1	Originate Document	10/16/06	Zack S.



*Indicates Customization Available

APPROVALS	DATE	 DIODE LASER CONCEPTS, INC. 4731 Industry Drive Central Point, Oregon 97502 USA
Drawn By: Zack S.	10/16/06	
Approved By: Mike R.	10/16/06	Part Number: Specific part numbers are issued according to configuration.
Customer Approval: N/A	N/A	Description: General specifications for Industrial line generator modules.

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