

2.5 mW 632.8nm (RED) HELIUM NEON LASER MODEL: 05-LHP-691

OUTPUT SPECIFICATIONS	
Minimum CW Power Output (mW)	2
Wavelength (nm)	632
Transverse Mode	> 90% TEN
Polarization	Linear > 500
Beam Diameter at 1/e ² Points	0.52 ± 5
Beam Divergence (mrad)	1.53 ± 5
Longitudinal Mode Spacing (MHz)	78
Mode Sweeping	< 10
Long Term Power Drift (8 hrs)	< 2.5
Amplitude Noise, 30 Hz to 30 MHz (peak-to-peak)	< 2.8
Warmup to > 95% of Maximum Power (minutes)	<:
Beam Concentricity with Respect to Housing (mm)	± 0.2
Beam Parallelism with Respect to Housing (mrad)	<
ELECTRICAL SPECIFICATIONS	
Start Voltage (kVdc)	<
Recommended Operating Current (mA)	4.5 ± 0
Operating Voltage (VDC)	1770 ± 10
Recommended Power Supply Laborato	ry OEM (AC) OEM (DC)
05-LPL-901-	-045 05-LPM-901-045 05-LPM-804-045
ENVIRONMENTAL SPECIFICATIONS	OPERATING NON-OPERATIN
Temperature (°C)	-20 to +60 -40 to +8
Altitude (meters)	0 to 3000 0 to
Relative Humidity (%, non-condensing)	0 to 99% 0 to 99
Mechanical Shock (g)	< 1 for < 11 msec < 25 for < 11 ms < 100 for < 1 ms
SHUTTER	(8.85 (224.8)
$\begin{array}{c} \text{OPEN} \text{CLOSED} \\ \begin{array}{c} 20 \\ (5.1) \end{array} \end{array} \xrightarrow{20} \left[\begin{array}{c} 30 \\ (7.6) \end{array} \right] \end{array}$	$2X_{(25.4)}$
O (31.8) RECOMMENDED MOI INDICATED BY SHAD	
	HIGH VOLTAGE CONNECTOR
POLARIZATION	

Dimensions in Inches (mm)



□ +

72.00 (1828.8)

+1 (760) 539-7169

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LASER CLASSIFICATION		
US 21 CFR 1040.10	Compliant [See Conditions of Acceptability Below]	Class IIIa
IEC 60825-1:2014	Compliant [See Conditions of Acceptability Below]	Class 3R
US FDA Accession Number		8010237
REGULATORY COMPLIANCE		
Laser Safety		IEC 60825-1:2014
Electrical Safety		IEC 61010-1:2010 + A1
Certifying Body		TUV Rheinland
RoHS 3		EU 2015/863
Product Markings		cTUVus, CE, WEEE
EXPORT INFORMATION	LASER	POWER SUPPLY*
ECCN	EAR99	EAR99
HTTS	9013.20.0000	8504.40.9510
Country of Origin	United States	Contact Factory

THESE PRODUCTS ARE SOLD IN ACCORDANCE WITH UNITED STATES EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAWS IS PROHIBITED.

* Power Supply is Sold Separately



CONDITIONS OF ACCEPTABILITY :

- 1. For component type devices, the following requirements shall be followed at end use.
- 2. The laser power supply at end use shall have negative output terminal reliably connected to earth. The maximum output current of the power supply shall not exceed 2.5A under normal and fault conditions.
- 3. Safety interlock switch, key switch, controls, laser housing and laser beam attenuator, as appropriate for each laser Class, must be present in accordance with Laser safety standards, IEC/EN 60825-1:2014.
- 4. A visual or audio indicator, in accordance to Laser safety standards, shall be provided in the end product.
- 5. The unit's thermal circuitry shall be evaluated in the end product.
- 6. The end user must provide their own safety monitoring mechanism to shut down a power supply if it fails to start the laser after several seconds.
- 7. IEC/EN 60825-12 shall be considered if the end system is a free space optical communication system used for transmission of information.

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