0.6 mW 632.8nm (RED) HELIUM NEON LASER
MODEL: 05-LSC-708

OUTPUT SPECIFICATIONS		
CW Power Output (mW)		0.6 min 1.6 max
Wavelength (nm)	[640nm line shall not be present]	632.8
Transverse Mode		> 90% TEM_{00}
Polarization	[See drawing for orientation]	> 500:1
Beam Diameter at $1/e^2$ Points		6.50 ± .50
Beam Divergence (mrad)		< .40
Longitudinal Mode Spacing (MHz)		1039
Mode Sweeping		< 20%
Long Term Power Drift (8 hrs)		< 5%
Amplitude Noise, 30 Hz to 30 MHz (peak-to-peak)		< 2.8%
Warmup to > 95% of Maximum Power (minutes)		15
Beam Concentricity with Respect to Housing (mm)		± 0.25
Beam Parallelism with Respect to Housing (mrad)		< 1
ELECTRICAL SPECIFICATIONS		
Input Voltage (Vdc)		12 ± .5
Input Power (W)		≤ 20

ENVIRONMENTAL SPECIFICATIONS	**OPERATING**	**NON-OPERATING**
Temperature (°C)	+ 10 to + 40	- 29 to + 60
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 msec < 100 for < 1 msec

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

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

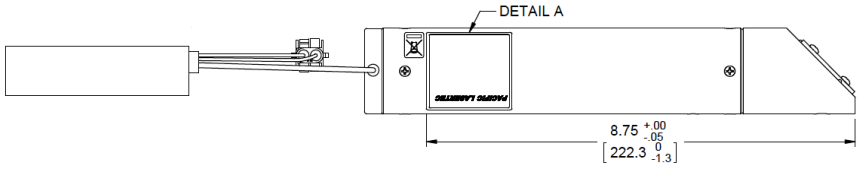
CONDITIONS OF ACCEPTABILITY :

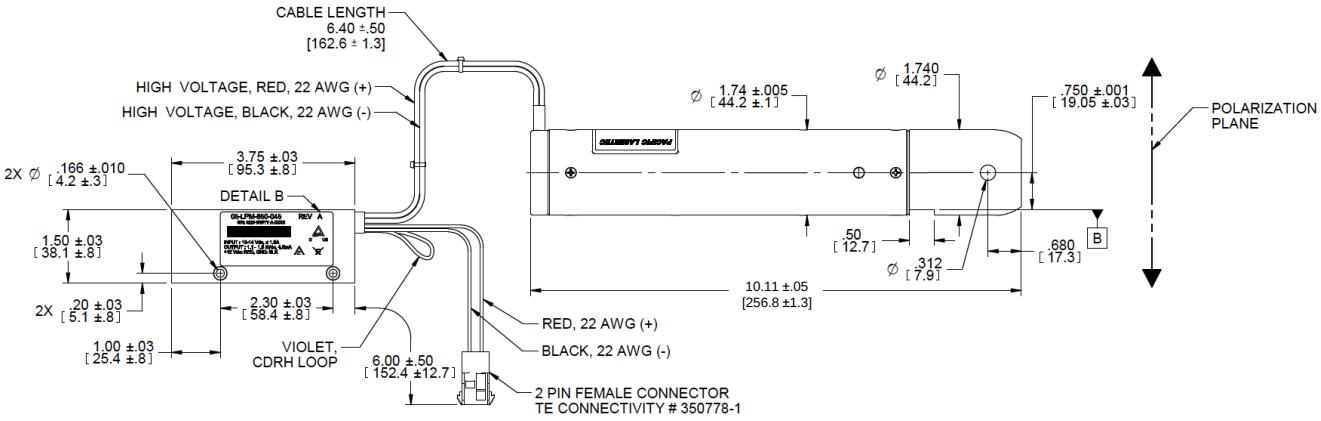
1. For component type devices, the following requirements shall be followed at end use.
2. The laser power supply at end use shall have negative output terminal reliably connected to earth. The maximum output current of the power supply shall not exceed 2.5A under normal and fault conditions.
3. Safety 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.

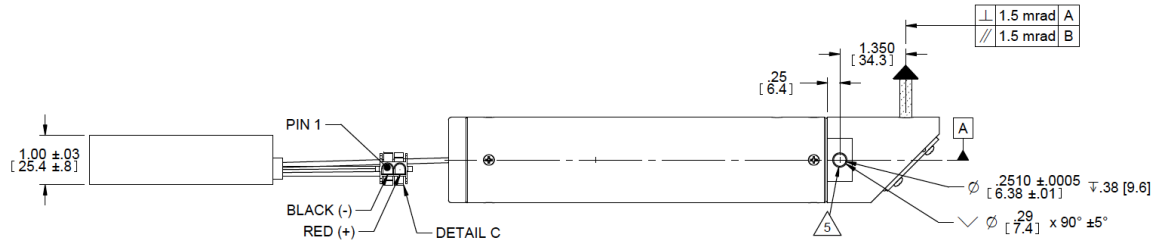
Information contained herein, in its entirety, is for reference only and subject to change without notice.

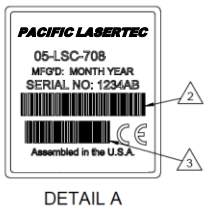
NOTES (UNLESS OTHERWISE SPECIFIED):

1. DIMENSIONS IN MILLIMETERS (mm) ARE IN BRACKETS.
2. BARCODE FORMAT: CODE 39
   BARCODE CONTENT: SERIAL NUMBER AND BUILD NUMBER (1234AB.12)
3. BARCODE FORMAT: CODE 39
   BARCODE CONTENT: POWER IN MILLWATTS (.XX)
4. HOUSING TO BE ISOLATED FROM POWER SUPPLY GROUND WITH A 1Ω, 1/6W RESISTOR.
5. ANODIZING OPTIONAL.
6. BARCODE FORMAT: CODE 128
   BARCODE CONTENT: SERIAL NUMBER









DETAIL A

DETAIL B

PIN	CONDUCTOR
1	GROUND RETURN (BLACK)
2	12 Vdc (RED)

DETAIL C