


# TECHNICAL DATA

## 31007

### CYLINDRICAL HELIUM-NEON LASER SYSTEM

Wavelength	633 nm
Minimum Output Power	0.8 mW
Power 3 Seconds After Turn-On	> 75%
Polarization	Linear > 500:1
Mode Structure	TEM <sub>00</sub> > 99%
Beam Diameter	0.57 mm
Beam Divergence	1.41 mrad
Longitudinal Mode Spacing	1082 MHz
Beam Drift After 20 Minute Warm-Up	< 0.2 mrad
Long Term Beam Drift	< 0.05 mrad
Noise (30 Hz - 10 MHz)	< 5% rms
Starting Voltage	< 10 kVDC
Operating Voltage	1500 VDC
Series Resistors in Housing	94 KΩ
Operating Current	5.25 mA
Shock	15 g for 11 msec
Laser Head Weight	600 grams
Dimensions	
Length	177.8±1.0 mm (7.00±0.04")
Diameter	44.5±0.5 mm (1.75±0.02")
Maximum Output Power	2.0 mW
CRDH/CE Classification	IIIa/3R
Recommended Power Supply	39783
Replacement Laser Head	39697

## ENVIRONMENTAL SPECIFICATIONS

	<u>Operating</u>	<u>Non-Operating</u>	
Temperature	-20 - +70° C	-40 - +80° C	
Humidity	≤ 80%	≤ 95%	
Altitude	0-3,000 meters	0-6,000 meters	

