


TECHNICAL DATA

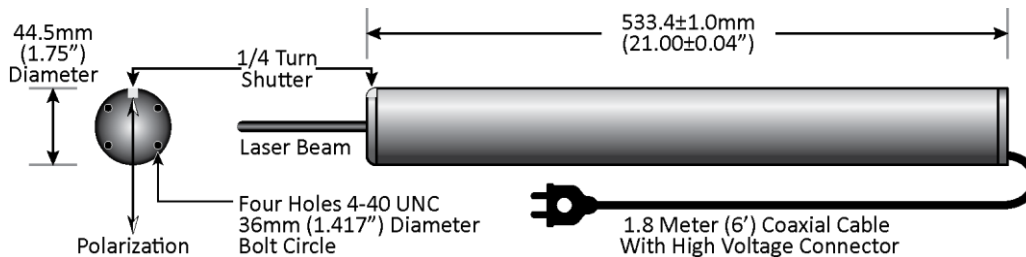
40137

CYLINDRICAL HELIUM-NEON LASER SYSTEM

Wavelength	1.52 μm /0.633 μm
Minimum Output Power	0.8 mW/1.0 mW
Power 3 Seconds After Turn-On	> 75%
Polarization	Linear > 500:1
Mode Structure	TEM ₀₀ > 99%
Beam Diameter	1.36 mm (1.52 μm)
Beam Divergence	1.42 mrad (1.52 μm)
Beam Diameter	0.87mm (0.633 μm)
Beam Divergence	0.82mrad (0.633 μm)
Longitudinal Mode Spacing	316 MHz
Beam Drift After 20 Minute Warm-Up	< 0.2 mrad
Long Term Beam Drift	< 0.05 mrad
Noise (30 Hz - 10 MHz)	< 20% rms
Starting Voltage	< 10 kVDC
Operating Voltage	2800 VDC
Series Resistors in Housing	94 K Ω
Operating Current	6.50 mA
Shock	15 g for 11 msec
Laser Head Weight	750 grams
Dimensions	
Length	533.4 \pm 1.0 mm (21.00 \pm 0.04")
Diameter	44.5 \pm 0.5 mm (1.75 \pm 0.02")
Maximum Output Power (1.52 μm)	5.0 mW
Maximum Output Power (0.633 μm)	5.0 mW
CRDH/CE Classification	IIIb/3B
Recommended Power Supply	39785
Replacement Laser Head	30538

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	



5505 Airport Boulevard Boulder, Colorado 80301

Phone - (303) 938-1960 Fax - (303) 447-3279