


## TECHNICAL DATA

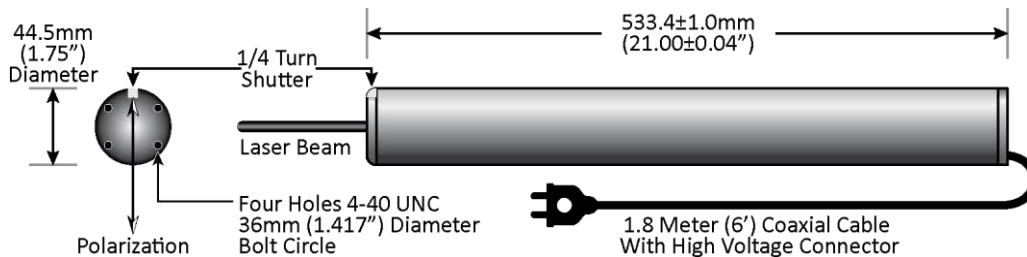
40137

### CYLINDRICAL HELIUM-NEON LASER SYSTEM

Wavelength	1.52 $\mu\text{m}$ /0.633 $\mu\text{m}$
Minimum Output Power	0.8 mW/1.0 mW
Power 3 Seconds After Turn-On	> 75%
Polarization	Linear > 500:1
Mode Structure	TEM <sub>00</sub> > 99%
Beam Diameter	1.36 mm (1.52 $\mu\text{m}$ )
Beam Divergence	1.42 mrad (1.52 $\mu\text{m}$ )
Beam Diameter	0.87mm (0.633 $\mu\text{m}$ )
Beam Divergence	0.82mrad (0.633 $\mu\text{m}$ )
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 $\Omega$
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 $\mu\text{m}$ )	5.0 mW
Maximum Output Power (0.633 $\mu\text{m}$ )	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	



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