

# TECHNICAL DATA

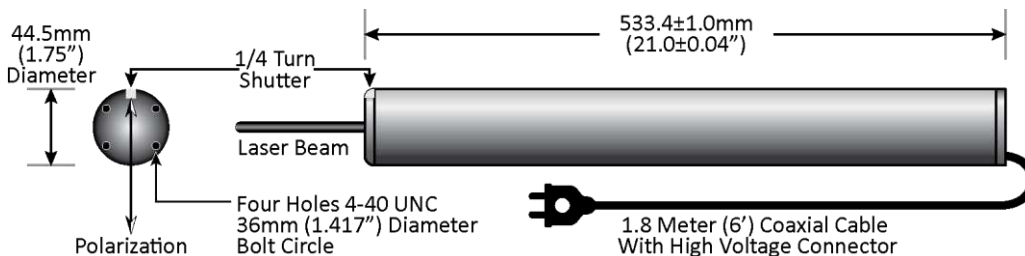
## 40136

### CYLINDRICAL HELIUM-NEON LASER SYSTEM

Wavelength	1.15 $\mu$ m
Minimum Output Power	1.0 mW
Power 3 Seconds After Turn-On	> 75%
Polarization	Linear > 500:1
Mode Structure	TEM <sub>00</sub> > 99%
Beam Diameter	1.09 mm
Beam Divergence	1.34 mrad
Longitudinal Mode Spacing	375 MHz
Beam Drift After 20 Minute Warm-Up	< 0.15 mrad
Long Term Beam Drift	< 0.02 mrad
Noise (30 Hz - 10 MHz)	< 5% rms
Starting Voltage	< 10 kVDC
Operating Voltage	2700 VDC
Series Resistors in Housing	94 K $\Omega$
Operating Current	6.5 mA
Shock	15 g for 11 msec
Laser Head Weight	853 grams
Dimensions	
Length	533.4 $\pm$ 1.0 mm (21.0 $\pm$ 0.04")
Diameter	44.5 $\pm$ 0.5 mm (1.75 $\pm$ 0.02")
Maximum Output Power	2.0 mW
CRDH/CE Classification	IIIb/3B
Recommended Power Supply	39785
Replacement Laser Head	30684

### ENVIRONMENTAL SPECIFICATIONS

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



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