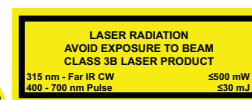


HRP050



High-Power, HeNe Lasers: Red

Description

Thorlabs high-power, red (632.8 nm), Helium-Neon lasers exhibit outstanding stability and performance with power outputs up to 17 mW. This classic tube design features four 4-40 holes located on the front for easy mounting of accessories.

An external power supply is included.

Specifications

Specification	Value
Wavelength	633 nm
Maximum Output Power	10.0 mW @ 633 nm
Minimum Output Power*	5.0 mW
Power 3 Seconds After Turn-On**	>75%
Polarization	Linear > 500:1
Mode Structure	TEM ₀₀ > 99%
1/e ² Beam Diameter	0.80 mm
Beam Divergence	1.01 mrad
Longitudinal Mode Spacing	441 MHz
Beam Drift After 30 Minute Warm-Up	<0.20 mrad
Long Term Beam Drift	<0.05 mrad
Noise (30 Hz – 10 MHz)	<1% RMS
Starting Voltage	<10 kVDC
Operating Voltage	2400 VDC
Operating Current	5.25 mA

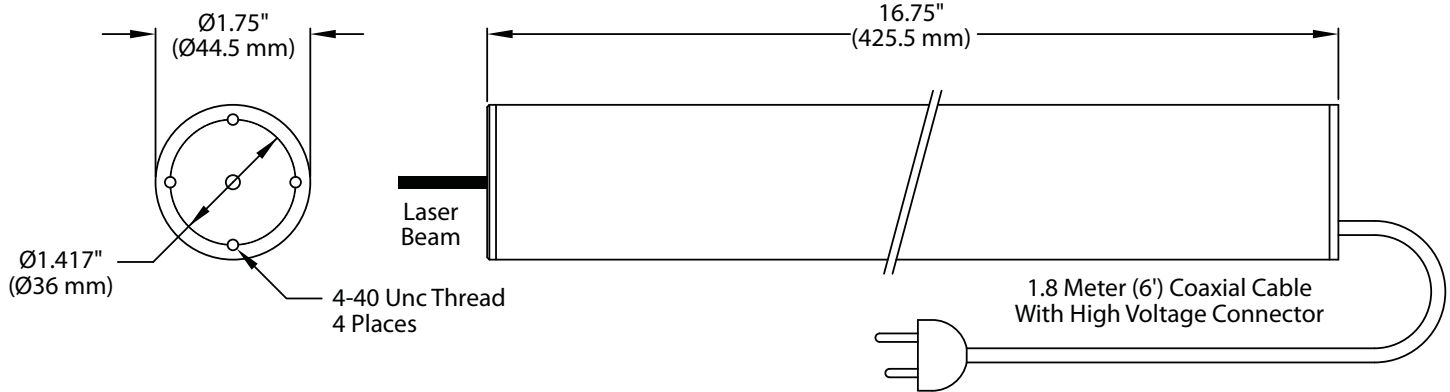
Specification	Value
Series Resistors in Housing	94 kΩ
Shock	15 g for 11 msec
Weight	650 grams
Dimensions	
- Length	425.5 ± 1.0 mm (16.75 ± 0.04")
- Diameter	44.5 ± 0.5 mm (1.75 ± 0.02")
CDRH Classification	IIIb
CE	3B

* 30 minute warm-up to minimum specified output power

** 3-5 second CDRH delay incorporated into all power supply models. The start time <5 seconds.

Environmental Specification	Operating	Non-Operating
Temperature	-20 to 70 °C	-40 to 80 °C
Humidity	≤80%	≤95%
Altitude	0 to 3,000 meters	0 to 6,000 meters

Drawings



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