

LASER SPECIFICATIONS

	LASER HEAD MODEL NO.			LASER PLASMA TUBE MODEL NO.	
	3201H 3201H-C 3201H-P 3201H-PC	Flying Leads High Voltage Conn. Polarized/Flying Leads Polarized/High Voltage Conn.	3203H 3203H-C 3203H-P 3203H-PC	3101H 3101H-P	3102H 3102H-P
• Minimum output power TEM ₀₀ at 632.8 nm (mW)	1.0		Random 2.0 Polarized 1.5	1.0	Random 2.0 Polarized 1.5
• Beam Diameter 1/e ² (mm)	0.49		0.49	0.49	0.49
• Beam Divergence (mrad)	1.7		1.7	1.7	1.7
• Longitudinal mode spacing (c/2L) (MHz)	635		635	635	635
• Operating voltage (Vdc ± 100)	1650		1650	1350	1350
• Recommended power supply resistance (kΩ)	50		50	50	50
• Required series anode ballast (kΩ) (Ballast location 3 inches from anode.)	Included in head		Included in head	75	75
• Connection with power source	Flying leads or high voltage conn. Alden #8102M		Flying leads or high voltage conn. Alden #8102M	—	—

COMMON SPECIFICATIONS

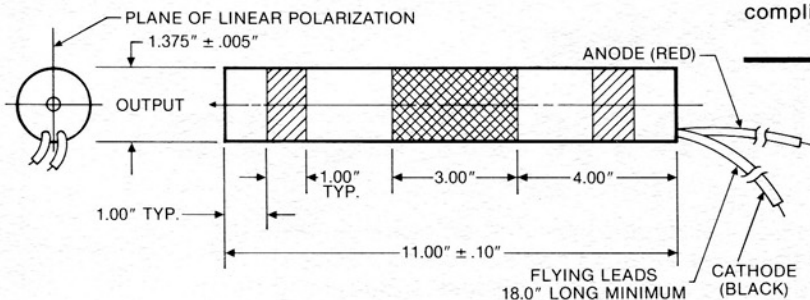
- Amplitude Noise (30 Hz-10 Mhz) < 1% rms
Note: Ripple is generally higher with dc power supply
- Long term drift ± 5% (in any 8 hr. period following 15 min. warm-up)
- Starting voltage < 8 kVdc
- Optimum operating current 4.5 ± 0.2 mA
- Static alignment (head) centered to outer cylinder to ≤ 0.010 in, parallel to outer cylinder to ≤ 1 mrad
- Angular drift
< 0.2 mrad from cold start at 25°C
< 0.03 mrad after 15-minute warm-up
- Polarization Linear, 500:1 extinction ratio ("P" models only)

COMMON ENVIRONMENTAL SPECIFICATIONS

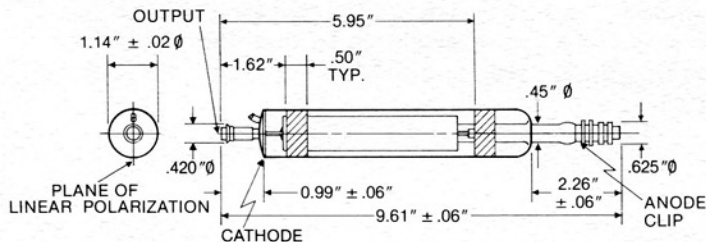
	OPERATING	NON-OPERATING
Temperature	-20°C to 50°C	-40°C to 80°C
Altitude	0-10,000 ft	0-70,000 ft
Relative humidity without condensation	0-100%	0-100%
Shock		50g for 1 ms 15g for 11 ms

BUREAU OF RADIOLOGICAL HEALTH

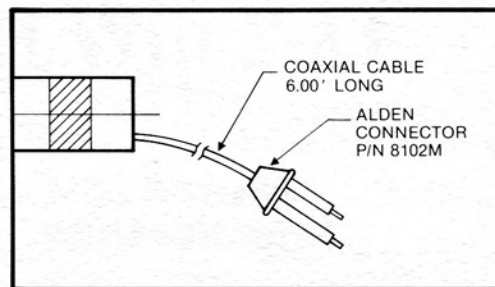
Laser models on this data sheet are sold only on an OEM or export basis and do not comply with BRH performance standard 21CFR1040. It is the user's responsibility to certify product compliance where applicable.



MODELS WITH FLYING LEADS (H AND H-P MODELS)



INTERNAL MIRROR PLASMA TUBE



WITH H.V. CONNECTOR (H-C and H-PC MODELS)
(All other dimensions same as H and H-P models)

RECOMMENDED MOUNTING AREAS
ALTERNATE MOUNTING AREA



HUGHES AIRCRAFT COMPANY • Industrial Products Division
6155 El Camino Real • Carlsbad, CA 92008 Tel: (714) 438-9191, Ext. 584 TWX: 910-322-1393

HUGHES AIRCRAFT INTERNATIONAL SERVICE COMPANY (HAISC)
Clive House, 12-18 Queens Road, Weybridge, Surrey KT13 9XD, England
Tel: (0932) 53180 • TLX: 929727