

Klystron — X-Band

L6145

The L6145 is a fixed-tuned, cathode-pulsed X-band klystron amplifier for use in high energy linear accelerator systems. Peak output power exceeds 5.0 megawatts at 0.4% duty; average power capability is 20 kilowatts.

Specifications

Performance

Frequency	9300 MHz
Peak Output Power	5.0 MW min
Beam Voltage	135 kV max
Beam Current.....	86 A max
Drive Power.....	50 W max
Duty.....	0.4 % RF
RF Pulse Width	3.2 μ s typical
Beam Pulse Width.....	4.0 μ s typica
Heater Voltage	7.0 V _{rms} or Vdc
Heater Current	21 A _{rms} or Adc
Ion Pump Voltage	3.0 kV min
Solenoid Voltage.....	130 Vdc max
Solenoid Current.....	35 \pm 1 Adc
Bucking Coil Current.....	1.5 Adc max

Operational Requirements

Coolant, Water	
Inlet Temperature.....	35 \pm 15 $^{\circ}$ C
Body-Collector Flow Rate	12 GPM duty dependent min
Solenoid Flow Rate	3.0 GPM min
Waveguide Pressurization	SF ₆ or Vacuum
Waveguide Pressure.....	35 PSIG max

Mechanical Characteristics

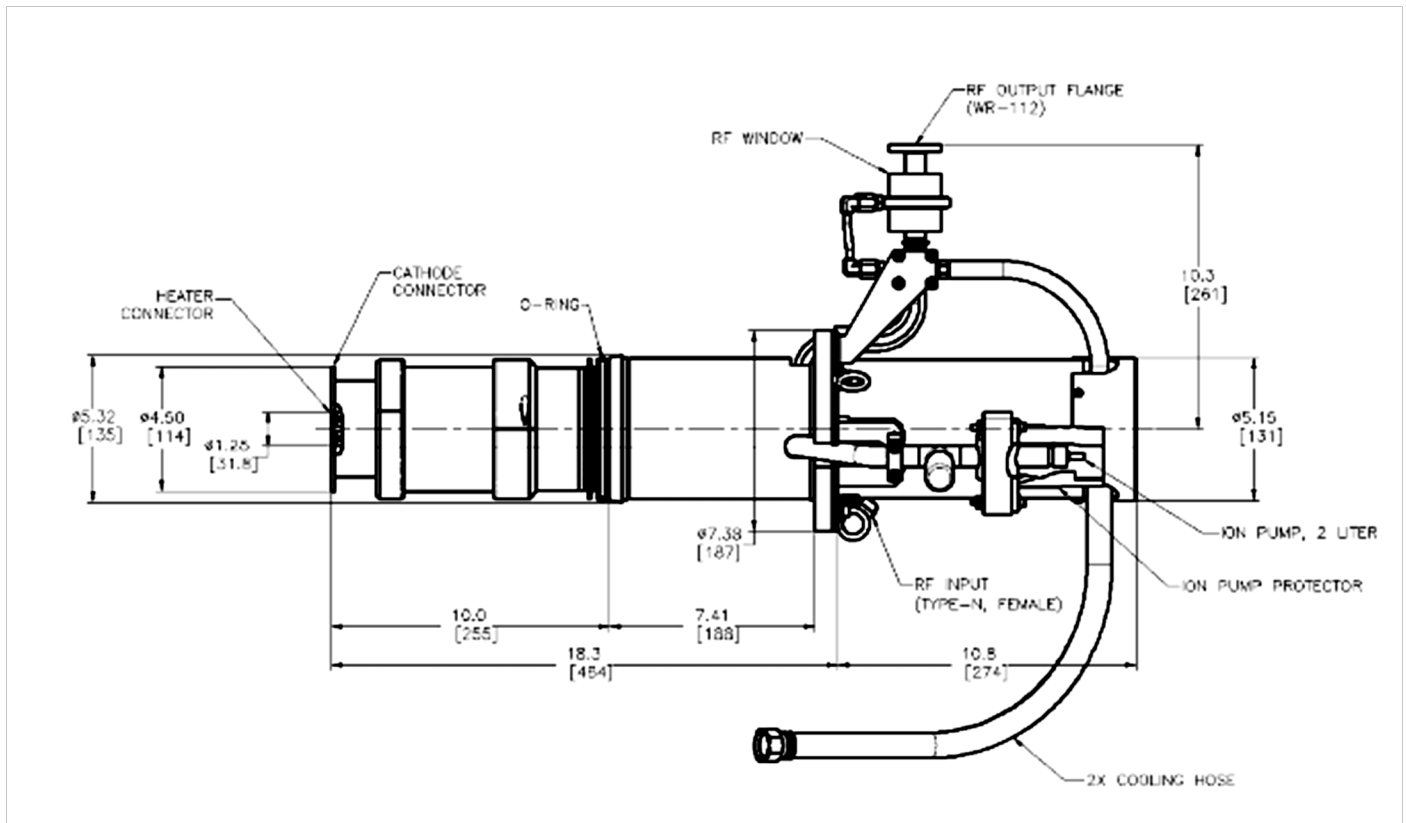
Physical Dimensions.....	29.1 in. L x 10.4 in. W x 14.2 in. H
Weight.....	91 lb.
Focusing Solenoid.....	per L-3 P/N 0490453
Focusing Solenoid Weight	360 lb.
Mounting Position.....	Vertical, Collector up
RF Input Connector.....	Coaxial, type-N female
RF Output Waveguide.....	WR-112



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Outline Drawing

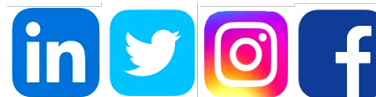


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