

L6145 X-BAND KLYSTRON



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 MW at 0.4% duty; average power capability is 20 kW.



SPECIFICATIONS

PERFORMANCE

Frequency	9.3 GHz
Peak Output Power	5.0 MW min
Drive Power	50 W max
Duty	0.4 % RF
RF Pulse Width	3.2 μ s typical
Beam Pulse Width	4.0 μ s typical

INTERFACE

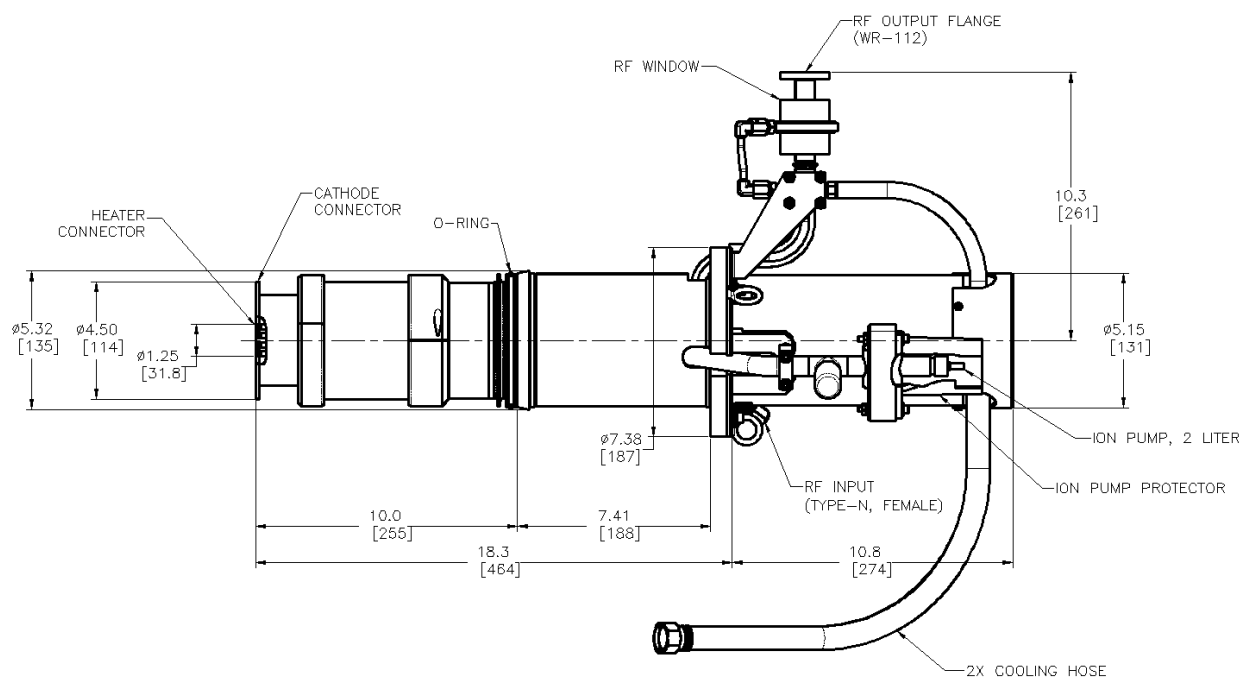
Beam Voltage	135 kV max
Beam Current	86 A max
Heater Voltage	7.0 Vrms or VDC
Heater Current	21 Arms or ADC
Ion Pump Voltage	3.0 kV min
Solenoid Voltage	130 VDC max
Solenoid Current	35 $\pm$ 1 ADC
Bucking Coil Current	1.5 ADC max
Waveguide Pressurization	SF ₆ or Vacuum
Waveguide Pressure	35 psig max

MECHANICAL

Physical Dimensions	See outline
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
Coolant, Water	
Inlet Temperature	35 °C $\pm$ 15 °C
Body-Collector Flow Rate	12 GPM duty dependent min
Solenoid Flow Rate	3.0 GPM min

OUTLINE DRAWING

(measurements in inches)



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