

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 (min, MW)	5.0
Beam Voltage (max, kV)	135
Beam Current (max, A)	86
Drive Power (max, W)	50
Duty (RF, %)	0.4%
Beam Pulse Width (typical, μ s)	3.2
Beam Pulse Width (max, μ s)	4.0
Heater Volts (V_{ms} or Vdc)	7.0
Heater Current (A_{ms} or Adc)	21
Ion Pump Voltage (min, kV)	3.0
Solenoid Voltage (max, Vdc)	130
Solenoid Current (Adc)	35 ± 1
Bucking Coil Current (max, Adc)	1.5

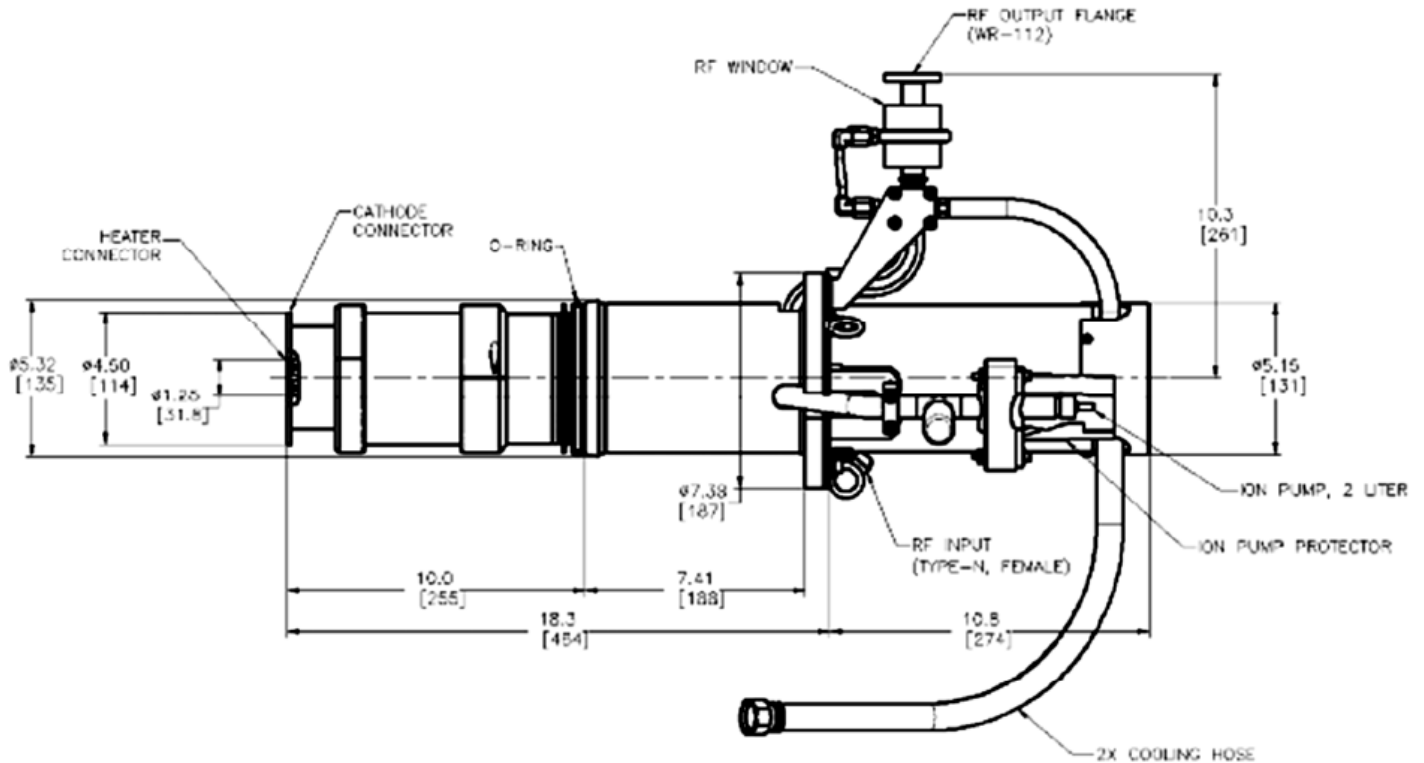
Operational Requirements	
Coolant, Water	
Inlet Temperature	$35^\circ \pm 15^\circ\text{C}$
Body-Collector Flow Rate (min, GPM)	12
Solenoid Flow Rate (min, GPM)	3.0
Waveguide Pressurization	SF ₆ or Vacuum
Waveguide Pressure (max, PSIG)	35

Mechanical Characteristics	
Physical Dimensions (typical, inches)	29.1 W x 10.4 L x 14.2 H
Weight (max, pounds)	91
Focusing Solenoid	Per L-3 P/N 0490453
Focusing Solenoid Weight (max, pounds)	360
Mounting Position	Vertical, Collector Up
RF Input Connector	Coaxial, type-N female
RF Output Waveguide	WR-112

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Outline Drawing (inches)



Detailed outline drawings are available on request. Specifications and features are subject to change without notice.




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