

Klystron — Cathode Pulsed

L5782

The L5782 is a tunable cavity, cathode pulsed klystron amplifier which operates over the frequency range 2.7-3.0 GHz with power output of 0.5 to 1.8 Mw peak. Focusing is by electromagnet. Cooling is by forced air. DS57821102

Specifications

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Performance Characteristics	
Item	Description
Frequency Range	2.7 to 3.0 GHz
Instantaneous Bandwidth	15 MHz
Peak Output Power	1.5 MW
Power Input (max)	7.5 W
Duty (RF)	0.16%
Duty (video)	0.22%
Gain	115 A
Pulse Width (max)	6µs
Typical Operating Conditions	
Beam Voltage	79 KV
Beam Current	40 to 47 A
Beam Power (max.)	6.6 KW
Heater Voltage	5.0 to 7.0 V
Heater Current	20 to 32 A
Cooling Air	160 cfm
Waveguide Pressure (min) Freon	2 psig
-12	
ION Pump Voltage	3 KV
Focusing Magnet	Ogallala 4IC2081 or Equivalent
Focusing Magnet Voltage (max.)	100 V
Focusing Magnet Current (max.)	25 A

Key Features

- * 2.7-3.0 GHz
- * 1.5 Mw
- * 53 dB Gain
- Air Cooled

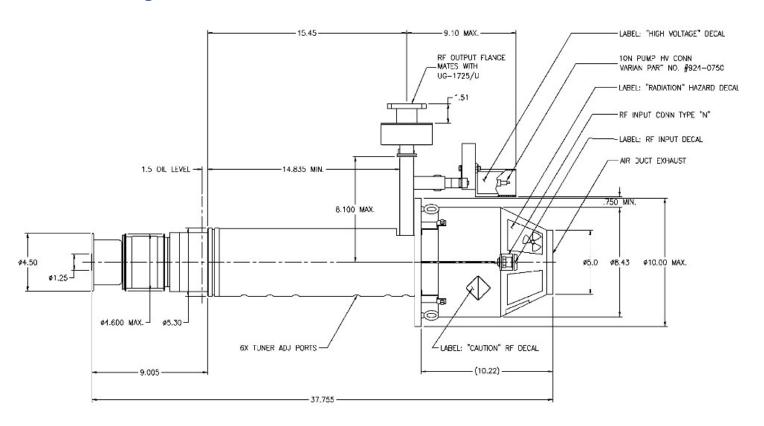
Mechanical Description	
Item	Description
Dimensions	36 X 10 X 17 inches
Weight	90 lbs.
Focusing Solenoid	Will advise
Mounting Position	Any
Solenoid Weight	300 lbs.
RF Input Connector	Type N
RF Output	Mates with UG-1725/u
Heater & Cathode Connector	Socket pads
Tuner Torque (max.)	200 ozin.
Coolant Connectors	See Outline Drawing on next page



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Outline Drawing



Stellant Systems is a partner for civil, military, and commercial organizations whose missions seek to ensure a safe, aware, and connected world.

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We are a premier manufacturer of critical spectrum and power amplification systems for defense, space, medical and industrial customers worldwide.

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