



communications

Electron Devices

L6048 Klystron

The L6048 is an 805 MHz, fixed frequency modanode, klystron amplifier capable of producing a peak power output of 2.75 megawatts at 0.10 duty cycle. DS60481102

Typical Operation

Frequency	805 MHz
Bandwidth (0.5 dB points)	1.0 MHz
Peak Power Output	2.75 MW
Average Power Output	275 KW
Gain	45 dB
Pulse Width (R-F)	1.67 ms
Duty	0.10
Beam Voltage	115 kV
Beam Current, peak	44 A
Efficiency	55%

Absolute Ratings

Heater Voltage, Ef	30 VAC
Heater Current, If (Surge)	30 AAC
Anode Voltage,	90 KV
Cathode Current, peak	44 A
Beam Input Power, peak	5 MW
Beam Input Power, average	500 KW
Pulse Length.....	1.67 ms
R-F Input Power, peak.....	90 W
R-F Input Power, average	9 W
Load VSWR (non-failure)	1.5:1
Cathode Heating Time, minimum,	45 min.
Hydrostatic Pressure	150 psig
Coolant Outlet Temperature	70°C

Electrical Data-General

Heater Voltage.....	27 VAC
Heater Current	26 AAC
Focusing	Electromagnetic
Solenoid	Model 467892



Mechanical Data-General

Physical Dimensions	134 x 24 x 33 in.
Klystron Weight	800 lbs.
Solenoid Weight	3200 lbs.
Mounting Position	Vertical, Cathode end down
R-F Input Connector	Coax, Type N
R-F Output Connector	WR975 waveguide
Cathode and Heater Connector	Mates to 468813 Socket
Coolant Connectors	See Outline Drawing
Coolant, Water	
Collector, flow	100 gpm
Body, flow	10 gpm
Solenoid, flow	3.0 gpm
Pressure Drop	<120 psi
X-Ray Shielding Required	