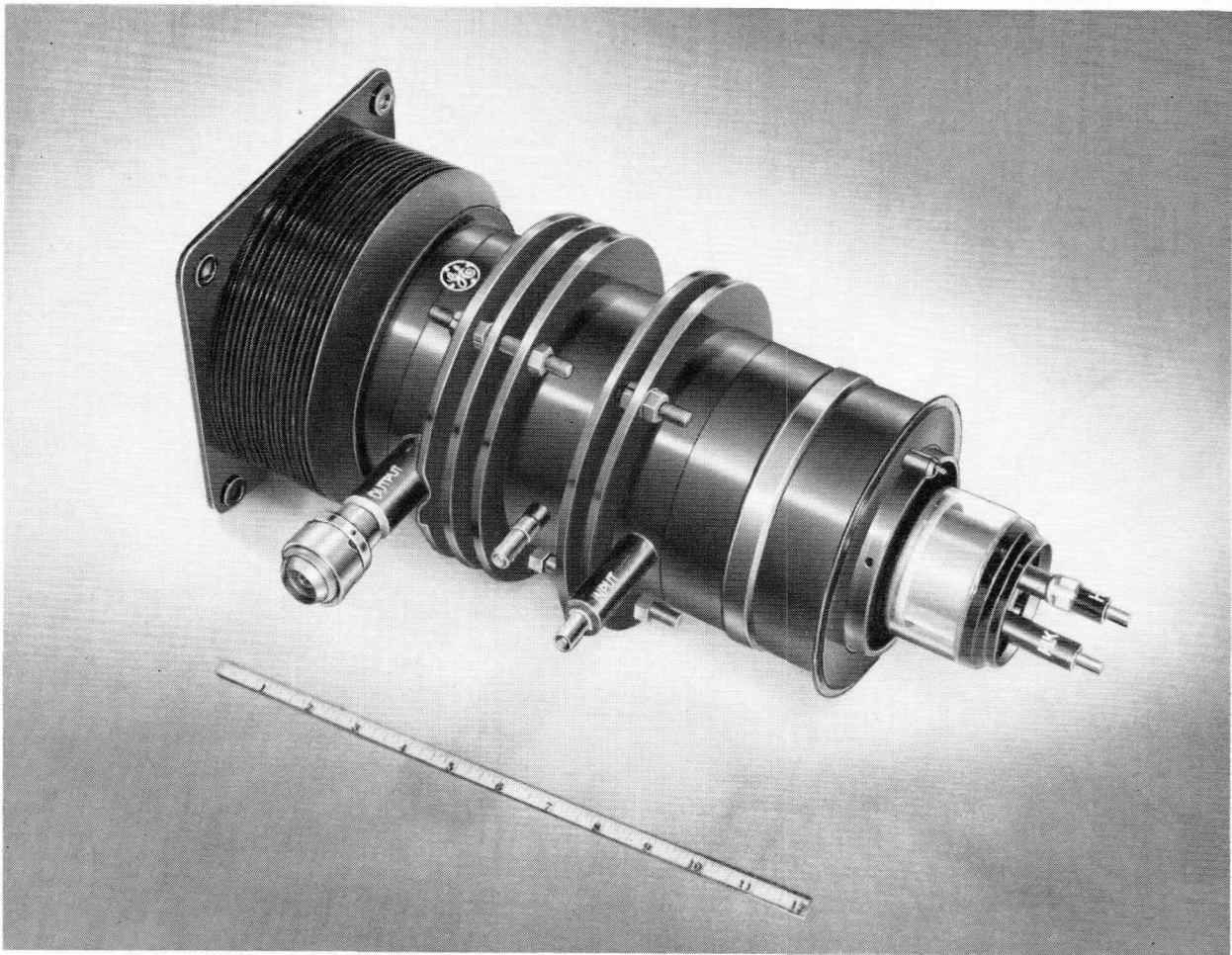




KLYSTRON

960-1215 MEGACYCLES
22 KILOWATTS PEAK OUTPUT

INTEGRAL RESONATORS
ELECTROSTATICALLY FOCUSED

The GL-6625 is a three-resonator tunable amplifier klystron for pulsed operation up to a maximum duty of twelve percent. The tube covers a frequency range of 960 to 1215 megacycles and will provide a peak power output of 22 kilowatts. The uni-potential cathode is oxide-coated and indirectly heated. The rf output coupling is for $\frac{7}{8}$ -inch

coaxial 50-ohm line and matches UG-1126/U connectors. The input and center-cavity-monitor fittings are BNC type to accommodate UG-88/U connectors. The tube is forced-air cooled, features mechanically tuned integral resonators, and is electrostatically focused, which eliminates the necessity for external magnets or focus coils.

GENERAL  ELECTRIC

2 prints
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TECHNICAL INFORMATION

GENERAL

Electrical	Minimum	Bogey	Maximum
Heater Voltage.....	4.5	5.0	5.5 Volts
Heater Current at 5 Volts.....	35		45 Amperes
Heater Starting Current.....			70 Amperes
Heater Cold Resistance.....		0.02	 Ohms
Cathode Heating Time.....	5.0		 Minutes
Frequency.....	960		1215 Megacycles
Capacitance, cathode gun.....		35	 $\mu\mu\text{f}$

Mechanical

Mounting Position—Any		
Net Weight, approximate.....	30	Pounds

Thermal

Air Flow.....	220 Min	Cubic Feet per Minute
Air flow of at least 220 cubic feet per minute is required for operation at maximum ratings. In any case, sufficient air cooling must be provided and distributed to keep temperatures below the indicated limits.		
Operating Temperature		
Tube Body.....	100 Max	C
Cooling Fin Assembly.....	125 Max	C

MAXIMUM RATINGS AND TYPICAL OPERATION

RADIO-FREQUENCY PULSE AMPLIFIER

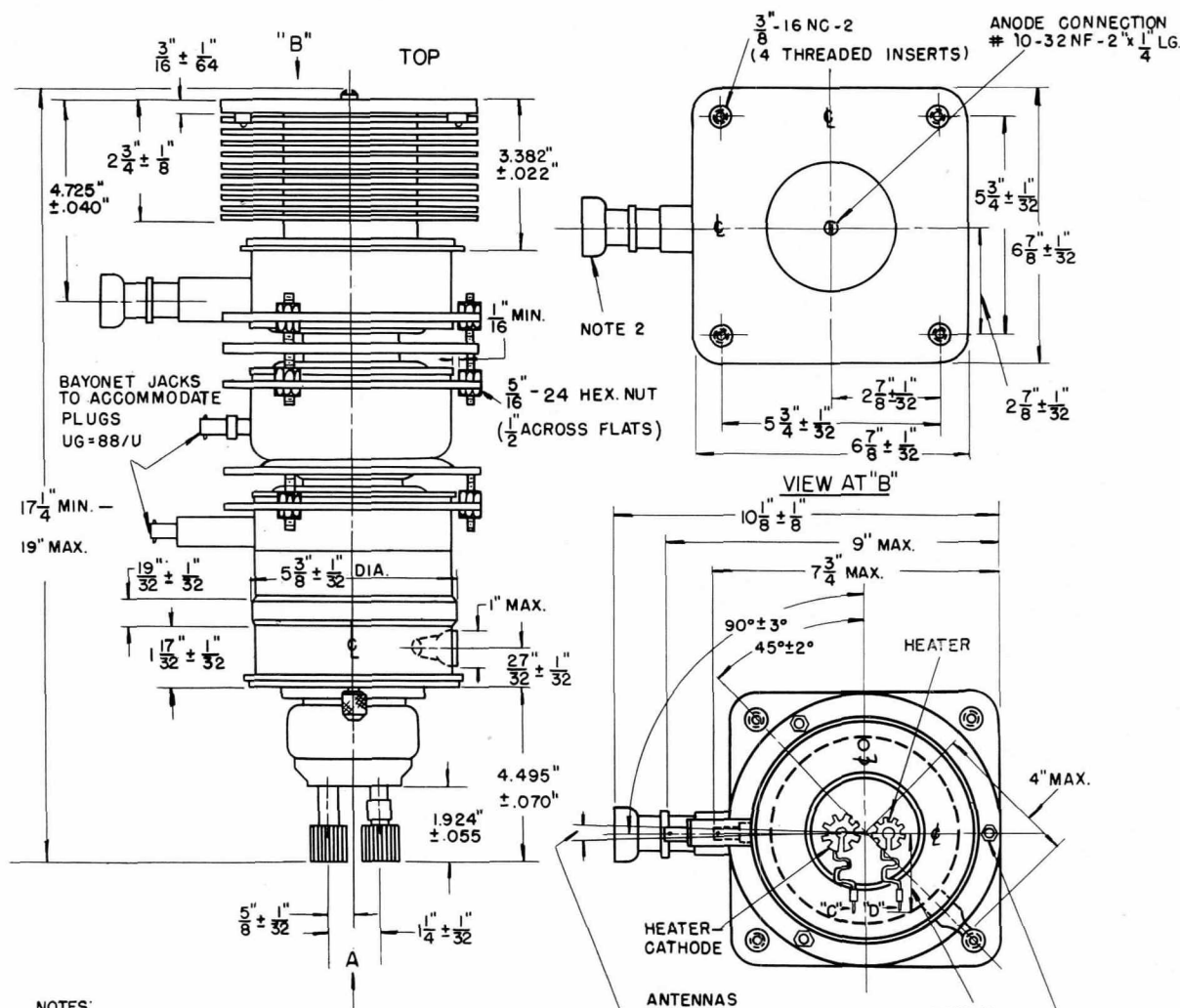
Maximum Ratings, Absolute Values

Peak Beam Voltage.....	20 Max	Kilovolts
Peak Beam Current.....	9.35 Max	Amperes
Average Beam Power.....	2400 Max	Watts
RF Output Power, average.....	300 Max	Watts
Beam Pulse Width.....	10 Max	Microseconds
Duty Cycle.....	12	Percent

For periods of time not to exceed one millisecond, duty cycles up to forty percent may be used.

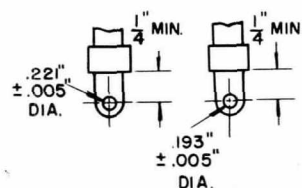
Typical Operation

Peak Beam Voltage.....	10	18	Kilovolts
Peak Beam Current.....	3	6.6	Amperes
Peak RF Input Power.....	40	100	Watts
Peak RF Output Power.....	7.5	22	Kilowatts
RF Pulse Width.....	3.5	3.5	Microseconds
Duty Cycle.....	6	1	Percent



NOTES:

1. AXIS OF TUBE SHALL BE PERPENDICULAR TO COLLECTOR END PLATE WITHIN .015" FOR EVERY INCH. (THIS ASSUMES PARALLEL TUNING).
2. OUTPUT FLANGE SHALL ACCOMMODATE FLANGE UG-1126/U.
3. COMPRESSED LENGTH $3\frac{3}{4}$ " (MAX.) EXTENDED LENGTH $3\frac{1}{2}$ " (MIN.).



VIEW AT "C" VIEW AT "D"

TUBE DEPARTMENT
GENERAL ELECTRIC
Schenectady 5, N. Y.