# Type 1B24

## TR Tube

## GENERAL CHARACTERISTICS

### Electrical

| | |
|---|---|
| Max. Ignitor Ignition Time | 5 Seconds |
| Max. Insertion Loss | 1.5 Decibels |
| Frequency Tuning Range | 8490 - 9600 Megacycles |
| Ignitor Voltage Drop for 100 Microamperes | 325 - 450 Volts |
| Max. Peak Leakage Power | 30 Milliwatts |
| Max. Loaded Q | 350 |
| Recovery Time - Loss of signal in the tube four microseconds following the pulse shall not be more than 3 db in excess of the loss, 100 microseconds following the pulse. | |
| Ignitor Interaction, Max. | 0.2 Decibel |

### Mechanical

| | |
|---|---|
| Ionizable Medium | Gas |
| Number of Electrodes | *2 |
| Dimensions | See Outline |
| Mounting Position | Any |

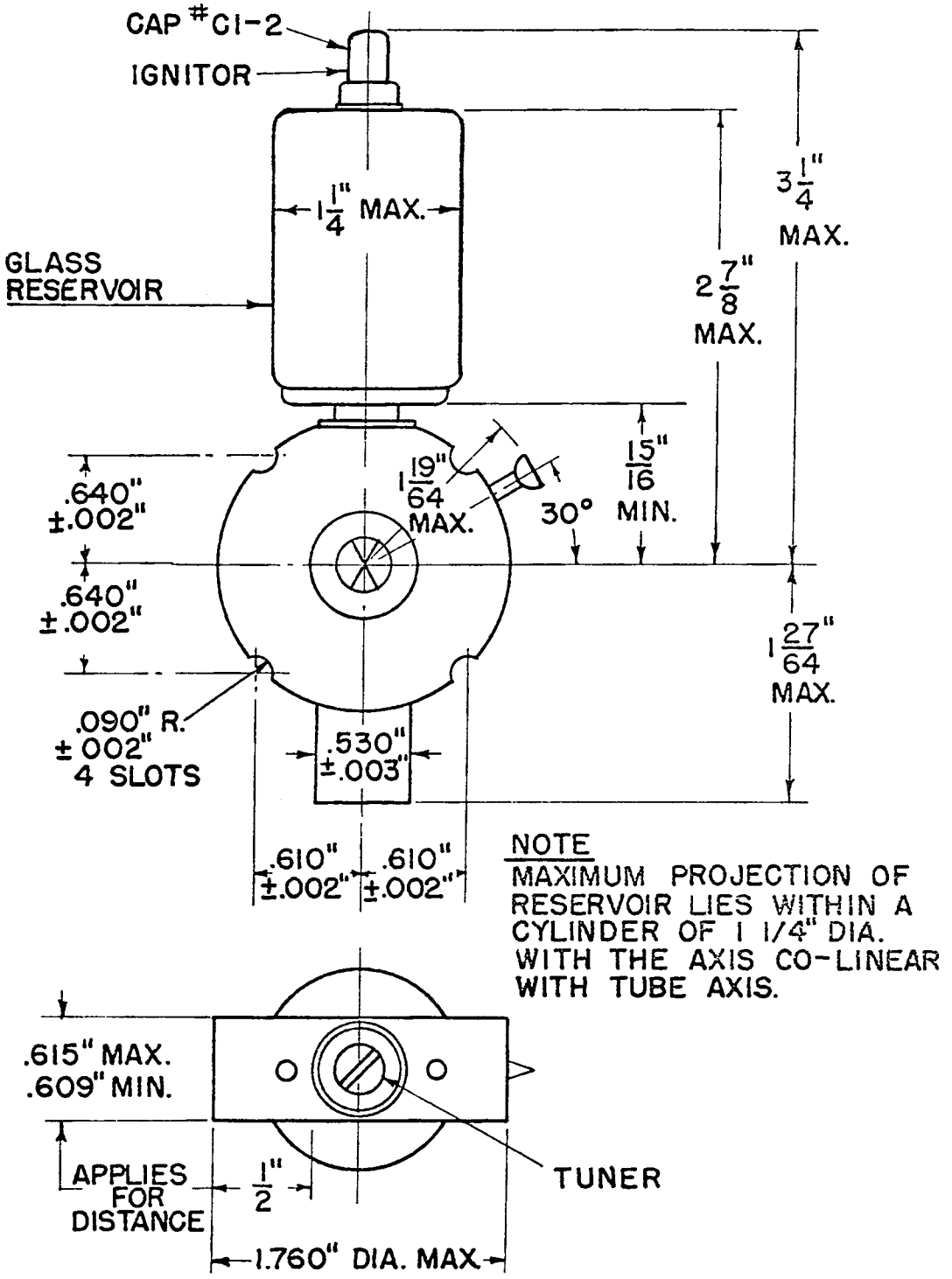
## MAXIMUM RATINGS

| | |
|---|---|
| Ignitor Open Circuit Voltage, DC | -750 to -1000 Volts |
| Ignitor Current | 100 to 200 Microamps. |
| Ambient Temperature Range | -50 to +100°C |

* The two points at the center of the tube constitute an rf gap, while the ignitor (at extreme end of reservoir and negative) and body constitute a dc gap used to produce ionization to help trigger the rf gap.

Bloomfield, New Jersey December 5, 1945

# 1B24


CAP #C1-2
IGNITOR
GLASS RESERVOIR
1 1/4" MAX.
3 1/4" MAX.
2 7/8" MAX.
15/16" MIN.
1 19/64" MAX.
30°
.640" ±.002"
.640" ±.002"
1 27/64" MAX.
.090" R. ±.002" 4 SLOTS
.530" ±.003"
.610" ±.002"
.610" ±.002"
NOTE
MAXIMUM PROJECTION OF RESERVOIR LIES WITHIN A CYLINDER OF 1 1/4" DIA. WITH THE AXIS CO-LINEAR WITH TUBE AXIS.
.615" MAX.
.609" MIN.
APPLIES FOR DISTANCE
1/2"
TUNER
1.760" DIA. MAX.

12-5-45