



LITTON INDUSTRIES

SAN CARLOS, CALIFORNIA

U.S.A.

Reservation No. _____
Reservation Date 2-25-47

Manufacturer's Designation L-3000A
Data Bureau Designation 5607

UHF MAGNETRON

General Characteristics

Electrical

(a) Filament or Cathode	<u>Filament</u>	type
Voltage (approx.)	<u>5.6</u>	volts
Current	<u>17.2</u>	amps
Frequency (continuously tuned)	<u>2.5 to 3.55</u>	kMc
Loading	<u>Limited adjustment</u>	

Typical Operation - C.W or Modulated

Field Strength (approx.)	<u>2500</u>	gauss
Anode Voltage	<u>5000</u>	volts
Anode Current (average)	<u>.300</u>	amps
Power Output	<u>800</u>	watts

Mechanical

See Outline Drawing

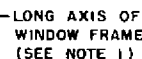
Maximum Ratings

Anode Voltage	<u>6000</u>	volts
Anode Current (Peak)	<u>1.0</u>	amps
Anode Current (Average)	<u>0.4</u>	amps
Anode Dissipation	<u>1000</u>	watts
Anode Temperature	<u>120</u>	°C
Cooling	<u>Water-Air</u>	
Power Output	<u>1000</u>	watts

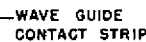
(a) Thoriated Tungsten



USE NO CLAMPS ON TUNING NUT



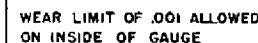
SHORT AXIS OF WINDOW FRAME
(SEE NOTE 2)



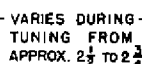
NOTE 6: MARK TUBE SERIAL NUMBER AND RECOMMENDED FILAMENT VOLTAGE ON HORN IN POSITION SHOWN.

- NEOPRENE OR EQUIVALENT COLLAR. SHORE DUROMETER
50 TO 60. FACE WITH ALUMINUM.

$\frac{1}{2} \pm .005$ FILAMENT CENTER TAP



FILAMENT TERMINAL ECCENTRICITY GAUGE



1.625 ± .010 DIA.

**STOP
SCREWS**

2 $\frac{3}{4}$ MAXIMUM
STRAIGHT LENGTH
(TO END OF SOLDER)

INTERNAL SPACING
BETWEEN POLE
PIECES . 075

MINIMUM RADIUS 1 $\frac{3}{4}$

B

6.67

7.43

15°

4.95

5.83

FLEXIBLE METAL HOSE

PLUGS TO FIT WIGGINS #179 BODY

.062

.080

.203

.540

FLEXIBLE METAL HOSE—
PLUGS TO FIT WIGGINS#179 BODY.

MOUNTING POSITION - AXIS OF BODY VERTICAL

D				SCALE: FULL		DATE PRINTED	
C				MAT'L:		IN PLACE BY:	SEE APP. B:
B							
A				DRAWN BY J. J. Tomasiello CHECKED BY RA DATE 10-9-47			
DATE 10-9-47 FROM CHANGED BY GR						L-3000-255	

OUTLINE DRAWING-5607	
LITTON ENGINEERING LABORATORIES REDWOOD CITY, CALIFORNIA	