



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	Limited adjustment	

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

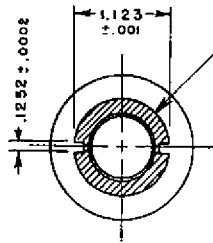
Mechanical

See Outline Drawing

Maximum Ratings

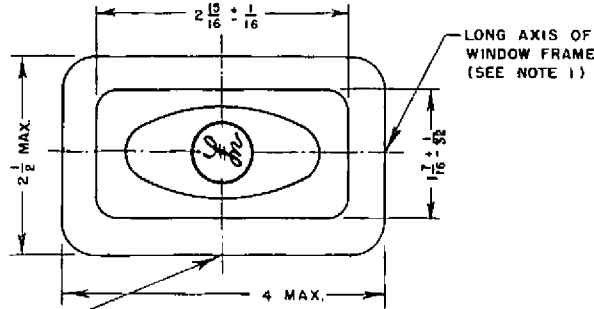
Anode Voltage	<u>6000</u>	volts
Anode Current (Peak)	<u>1.0</u>	amps
Anode Current (Average)	<u>0.4</u>	amps
Anode Dissipation	<u>1000</u>	watts
Anode Temperature	<u>120</u>	°C
Cooling	<u>Water-Air</u>	
Power Output	<u>1000</u>	watts

(a) Thoriated Tungsten



TUNING NUT
 USE DOUBLE KEY CHUCK FOR ENGAGEMENT WITH THE TUNING NUT.
 USE NO CLAMPS ON TUNING NUT.

2 SLOTS. EACH .125 ± .001 DEEP
 SECTION A-A



LONG AXIS OF WINDOW FRAME (SEE NOTE 1)

NOTE 1: THE LONG AXIS OF THE WINDOW FRAME MUST BE PARALLEL WITH THE AXIS OF THE BODY WITHIN 2°.

NOTE 2: THE SHORT AXIS OF THE WINDOW FRAME MUST BE WITHIN 1/8 OF THE BODY Ø.

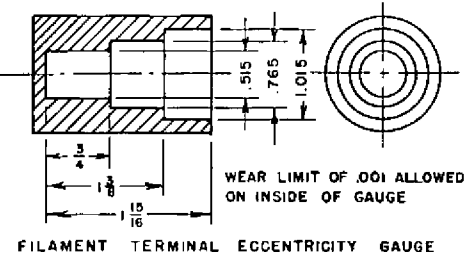
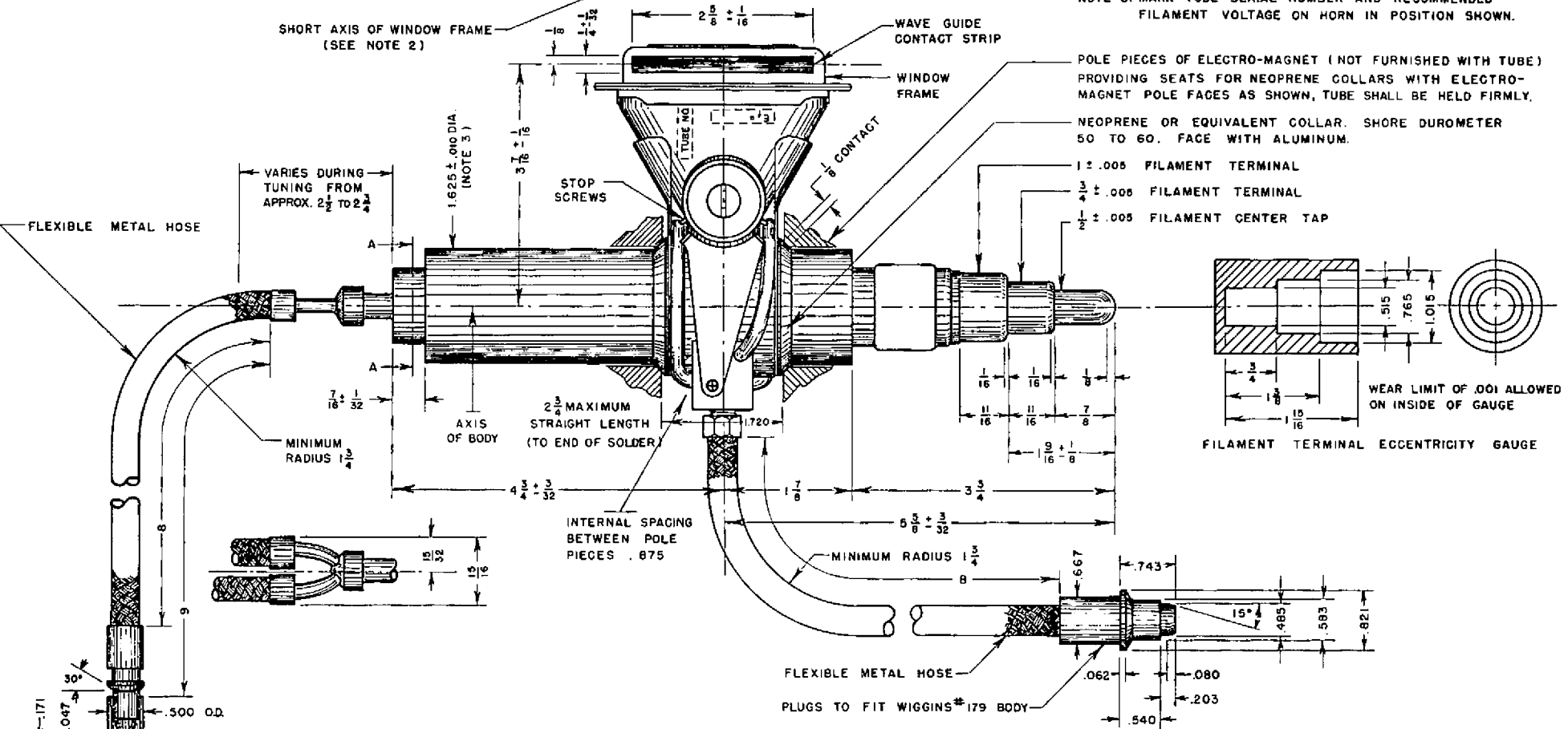
NOTE 3: MAKE NO ATTACHMENTS TO NECK OF TUBE FOR TUNING OR ANY PURPOSE.

NOTE 4: MEASURE ECCENTRICITY OF FILAMENT TERMINALS BY FILAMENT TERMINAL ECCENTRICITY GAUGE.

NOTE 5: MEASURE ECCENTRICITY OF DOUBLE FILAMENT TERMINALS WITH RESPECT TO BODY USING V BLOCK AND A 1.625 O.D. X 3/8 I.D. RING WHICH MUST SLIP OVER 1/2 FILAMENT TERMINAL.

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

SHORT AXIS OF WINDOW FRAME (SEE NOTE 2)



MOUNTING POSITION - AXIS OF BODY VERTICAL

D		SCALE: FULL		DATE PRINTED	
C		MAT'L:		IN PLACE BY: REAL. APPROV.:	
B		DRAWN: J. Tomasetti		LITTON ENGINEERING LABORATORIES	
A		CHECKED: 30-9-47		REDWOOD CITY, CALIFORNIA	
DATE: FROM: BY: CHANGED:		L3000-255			