



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.)	5.6	volts
Current	17.2	amps
Frequency (continuously tuned)	2.5 to 3.55	kMc
Loading	Limited adjustment	

Typical Operation - C.W. or Modulated

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

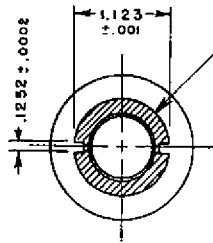
Mechanical

See Outline Drawing

Maximum Ratings

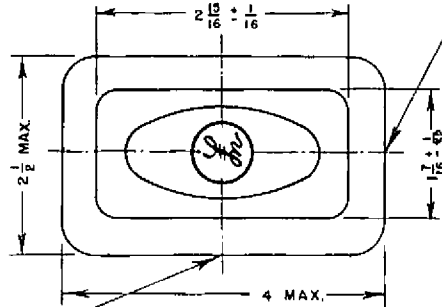
Anode Voltage	6000	volts
Anode Current (Peak)	1.0	amps
Anode Current (Average)	0.4	amps
Anode Dissipation	1000	watts
Anode Temperature	120	°C
Cooling	Water-Air	
Power Output	1000	watts

(a) Thoriated Tungsten



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

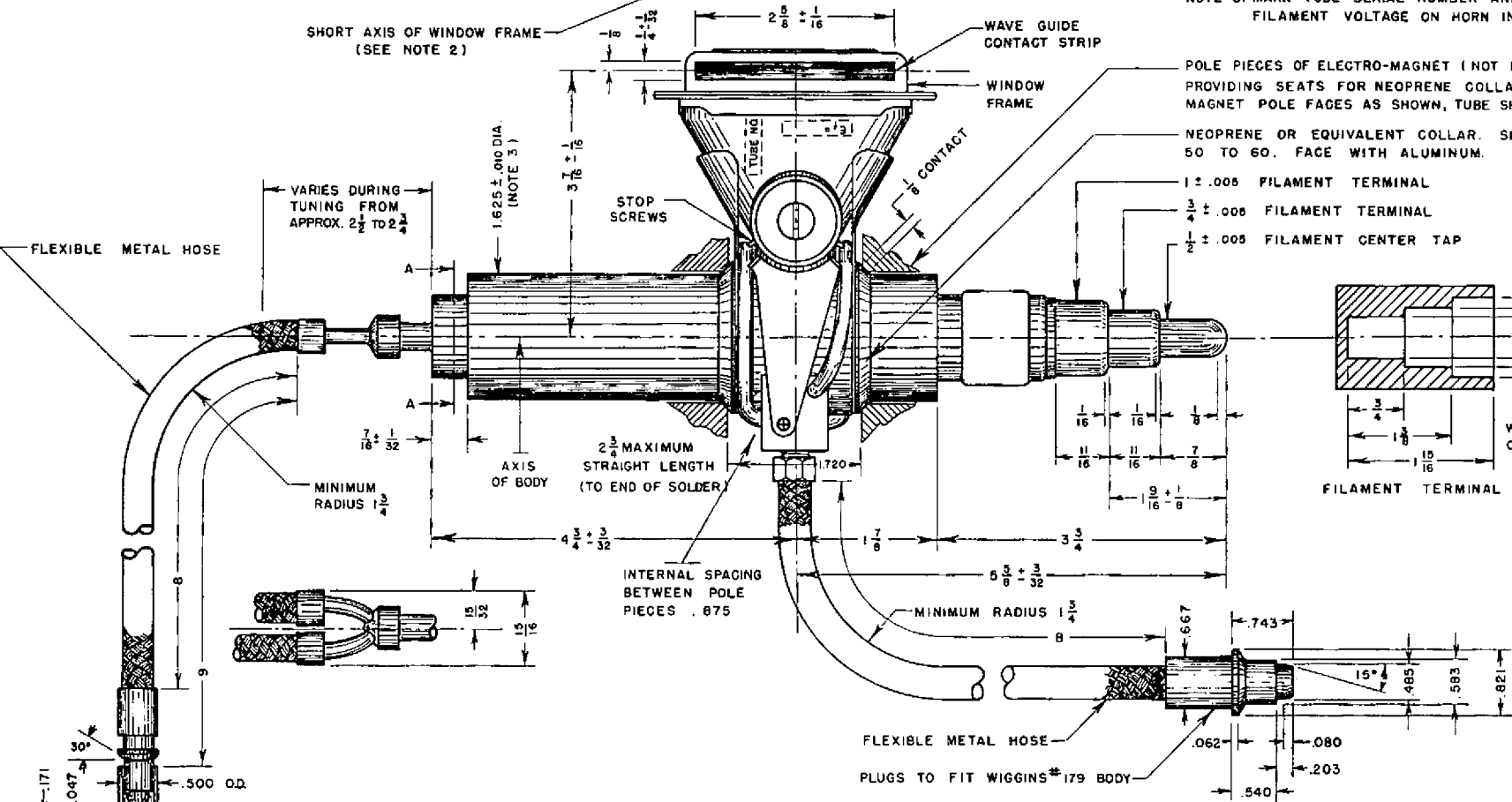
2 SLOTS. EACH .125 ± .001 DEEP
 SECTION A-A



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.

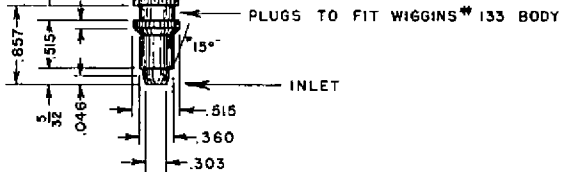
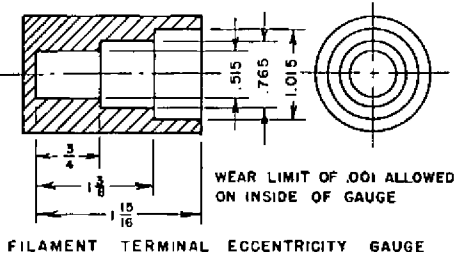
SHORT AXIS OF WINDOW FRAME (SEE NOTE 2)



POLE PIECES OF ELECTRO-MAGNET (NOT FURNISHED WITH TUBE) PROVIDING SEATS FOR NEOPRENE COLLARS WITH ELECTRO-MAGNET POLE FACES AS SHOWN, TUBE SHALL BE HELD FIRMLY.

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

- 1 ± .005 FILAMENT TERMINAL
- 3/4 ± .008 FILAMENT TERMINAL
- 1/2 ± .005 FILAMENT CENTER TAP



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:		L-3000-255			