



LITTON INDUSTRIES

SAN CARLOS, CALIFORNIA
U.S.A.

Reservation No. 5288
Reservation Date 3-14-45

Manufacturer's Designation L-3000
Data Bureau Designation 6J21

UHF MAGNETRON

General Characteristics

Electrical

(a) Filament or Cathode	Filament	type
Voltage (approx.)	5.6	volts
Current	17.2	amps
Frequency (continuously tuned)	2.5 to 3.55	kMc

Typical Operation - C.W. or Modulated

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

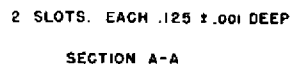
Mechanical

See Outline Drawing

Maximum Ratings

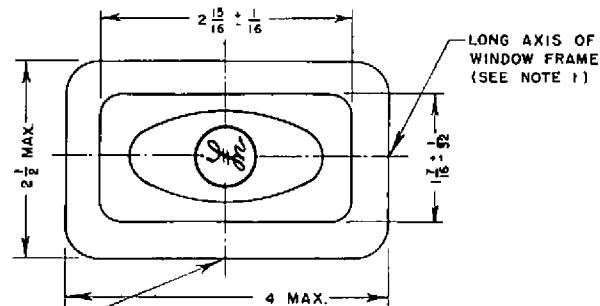
Anode Voltage	6000	volts
Anode Current (Peak)	1.0	amps
Anode Current (Average)	0.4	amps
Anode Dissipation	1000	watts
Anode Temperature	120	°C
Cooling	Water-Air	
Power Output	1000	watts

(a) Thoriated Tungsten



USE DOUBLE KEY CHUCK
FOR ENGAGEMENT WITH
THE TUNING NUT.

USE NO CLAMPS ON TUNING NUT.



— LONG AXIS OF WINDOW FRAME
(SEE NOTE 1)

SHORT AXIS OF WINDOW FRAME
(SEE NOTE 2)

WAVE GUIDE
CONTACT STRIP

— WINDOW
FRAME

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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 $\frac{1}{16}$ OF THE BODY $\frac{1}{16}$.

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 OD. X $\frac{5}{8}$ I.D. RING WHICH
MUST SLIP OVER $\frac{1}{2}$ FILAMENT TERMINAL.

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

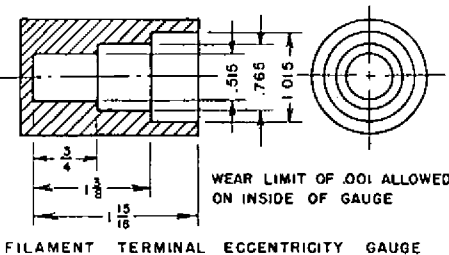
- POLE PIECES OF ELECTRO-MAGNET (NOT FURNISHED WITH TUBE)
PROVIDING SEATS FOR NEOPRENE COLLARS WITH ELECTRO-
MAGNET POLE FACES AS SHOWN, TUBE SHALL BE HELD FIRMLY.

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

- 1 ± .005 FILAMENT TERMINAL

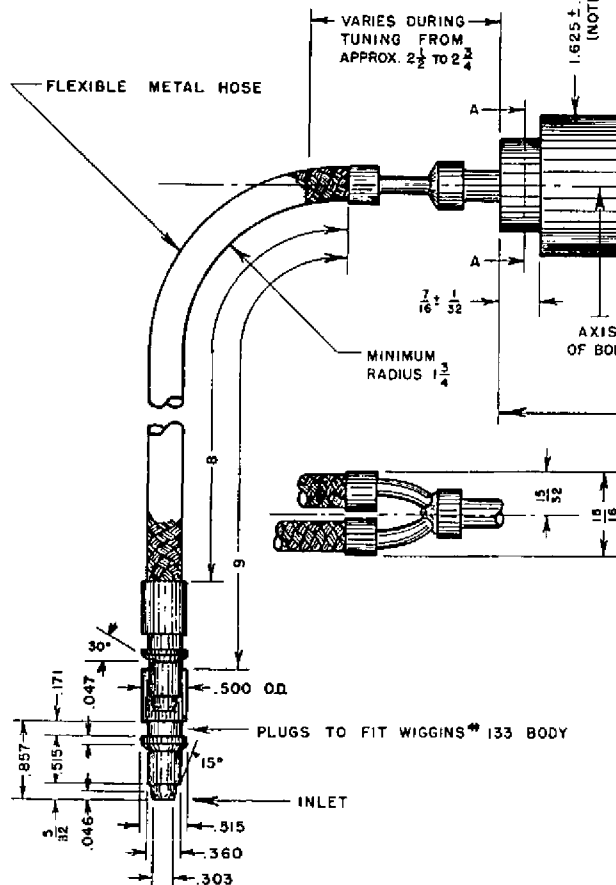
- $\frac{3}{2} \pm .005$ FILAMENT TERMINAL

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



WEAR LIMIT OF .001 ALLOWED
ON INSIDE OF GAUGE

FILAMENT TERMINAL ECCENTRICITY GAUGE



MOUNTING POSITION - AXIS OF BODY VERTICAL

D				SCALE: FULL		OUTLINE DRAWING-6J2I		DATE PRINTED	
C				MAT'L:				NO PLANT OR. SEE ORDER	
B									
A				DRAWN BY: JTBmasello		10-9-62		L-3000-200	
DATE		FROM		BY		CH			
CHANGED				CHECKED					