



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	<u>5.6</u>	type
Voltage (approx.)		volts
Current	<u>17.2</u>	amps
Frequency (continuously tuned)	<u>2.5 to 3.55</u>	kMc

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

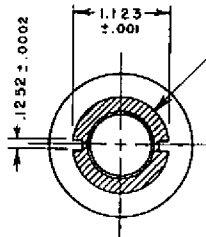
Mechanical

See Outline Drawing

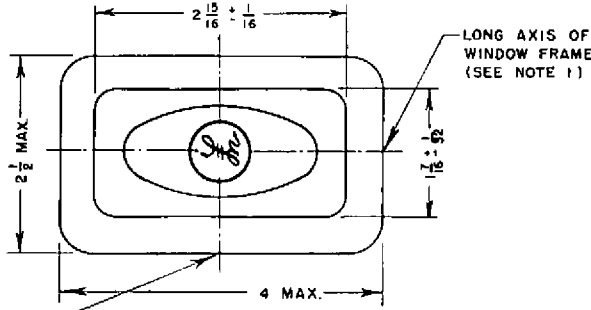
Maximum Ratings

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

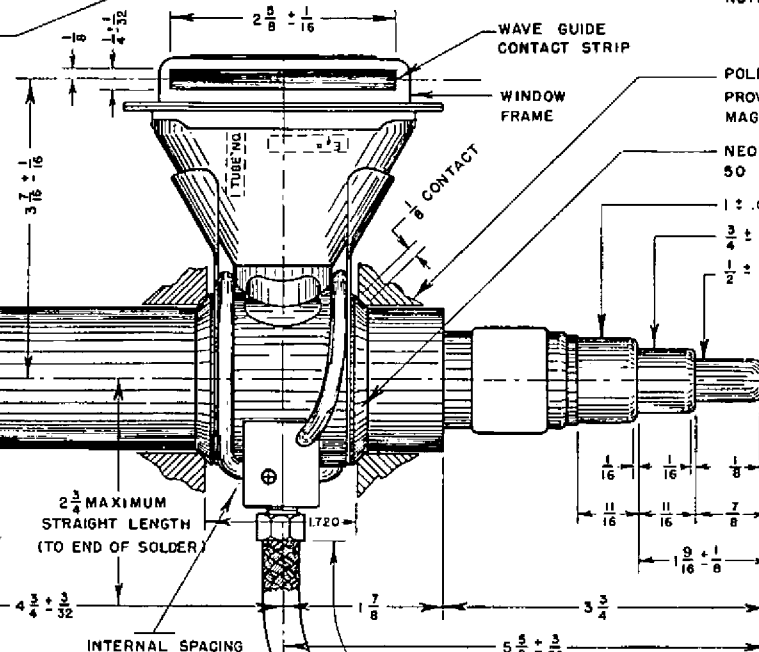


SECTION A-A
2 SLOTS. EACH .125 ± .001 DEEP
USE DOUBLE KEY CHUCK FOR ENGAGEMENT WITH THE TUNING NUT.
USE NO CLAMPS ON TUNING NUT.

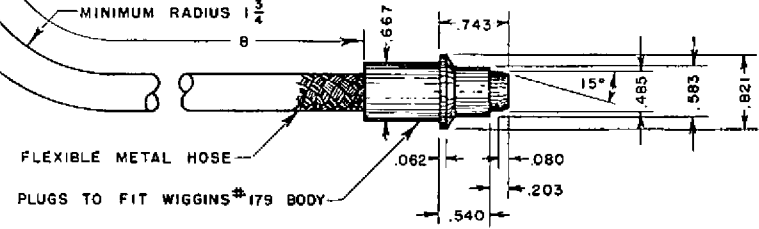
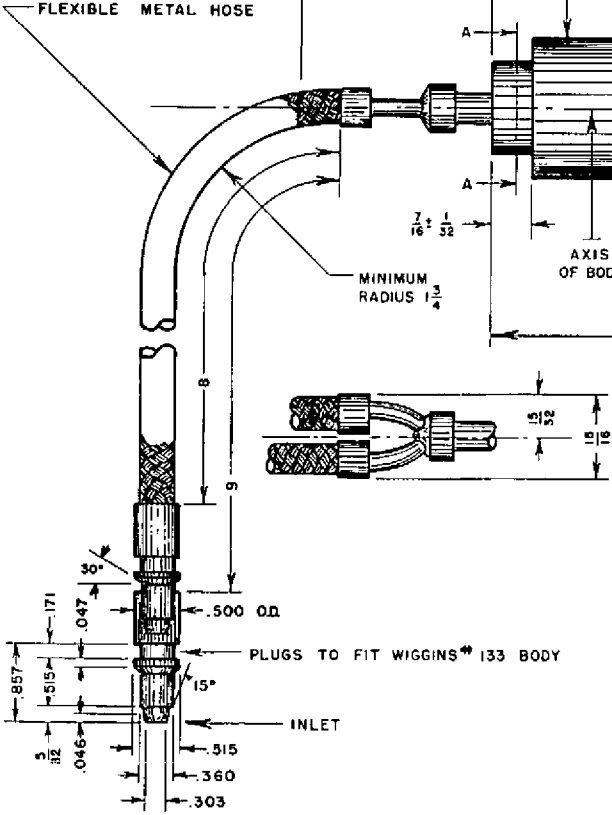
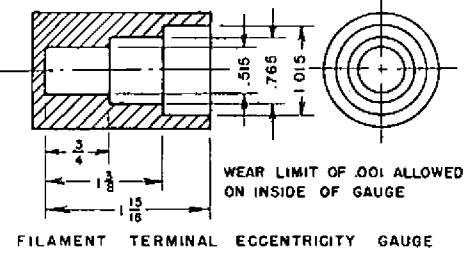


LONG AXIS OF WINDOW FRAME (SEE NOTE 1)

- 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 1/16 OF THE BODY.
- 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 5/8 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.



- 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 ± .005 FILAMENT TERMINAL
- 1/2 ± .005 FILAMENT CENTER TAP



MOUNTING POSITION - AXIS OF BODY VERTICAL

SCALE: FULL				OUTLINE DRAWING-6J21		DATE PRINTED	
MATERIAL:				DRAWN BY: J.T. Masello		IN PLACE BY: SEE ORDER	
DATE: _____ FROM: _____				CHECKED BY: _____		LITTON ENGINEERING LABORATORIES REDWOOD CITY, CALIFORNIA	
CHANGED: _____				10-9-47		L3000-200	