TECHNICAL DATA

3J22

Sylvania

TENTATIVE

Type 3J22

Pulse Type Magnetron

Non-Integral Magnetization, Removable Cavity

PHYSICAL SPECIFICATIONS

Cathode: Coated Unipotential
Dimensions: As Per Outline
Mounting Position: Any
Cooling: Convection

ELECTRICAL CONNECTIONS

Flat Disc:	Anode
Pin Terminals:	Heater & Cathode
Threaded Disc:	Output Flange

from RMA release # 520, Sept. 16, 1946

Ratings and Characteristics

Heater Voltage (ac or dc)	6.3	V
Heater Current	1.5	A
Minimum Cathode Heating Time	300	sec
Maximum Peak Anode Voltage	2000	v
Maximum Peak Anode Current	1.0	a
Maximum Peak Input Power	125	w
Maximum Duty Cycle	0.10	
Maximum Pulse Duration	5.0	us
Maximum Anode Temperature	100°	C
Maximum Operating Frequency	4950	Mc
Minimum Operating Frequency	4300	Mc
Maximum Magnetic Field Strength	H = 1100	gauss
Minimum Magnetic Field Strength	H = 1050	gauss

Typical Operating Conditions and Characteristics*

Starting Heater Voltage (ac or dc)	6.3	V
Operating Heater Voltage (ac or dc)	Note 1	V
Peak Anode Voltage	1850	v
Peak Anode Current	0.6	a
Average Anode Current	60	ma
Peak Power Output	80	w
Minimum Average Power Output	6.0	w
Pulse Duration	4.0	us
Pulse Repetition Rate	25,000	pps

*Measured in external cavity with dimensions of 3 inches inside diameter and 0.312 inches inside height.

Note 1: Reduce Heater voltage after 15 seconds to the following value:

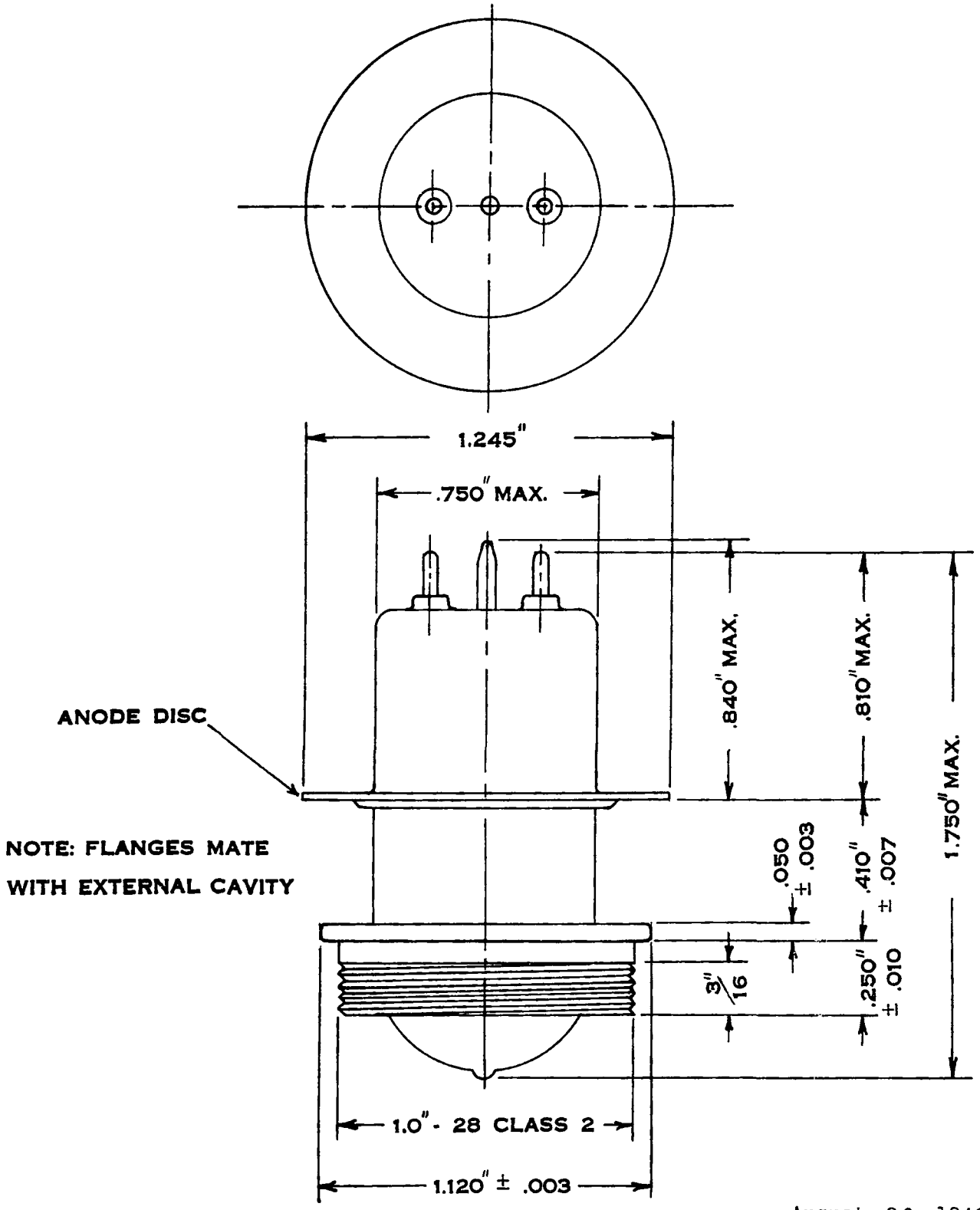
$$Ef = 6.3 \frac{(1-Po)}{56}$$

Type 3J22 is provided with tuning screws to cover the tuning range and a loop for coupling to the cavity.

SYLVANIA ELECTRIC PRODUCTS INC.

OUTLINE DRAWING

TYPE 3J22



August 26 1946