

SECURITY CLASSIFICATION: ~~CONFIDENTIAL~~

Type 2K33

CLASSIFICATION CANCELLED, BY AUTHORITY
OF THE CHIEF SIGNAL OFFICER, BY G. A. OSMUNDSEN,
Captain, Signal Corps, 18/2/46

Velocity Modulation Amplifier/Oscillator

GENERAL CHARACTERISTICS

ELECTRICAL

Voltage	6.3 volts
Current	.65 amps.
Frequency	Variable 1.25 $\pm$ 10% Cm
Ec1	1800 Volts
Ec2	1800 volts
Ec3	1800 volts
Repeller Voltage	-200 volts
Power Output	20 milliwatts

Mechanical

Tuner Base Connection
Standard Octal Base
Pin 1 - Cathode
2 - Heater
3 - H.C.
4 - H.C.
5 - H.C.
6 - H.C.
7 - Heater
8 - Grid #1

See outline drawing
for other mechanical
details

Maximum Ratings

Power Input	20 watts
Dissipation	20 watts

Sponsor: Raytheon Manufacturing Company, Power Tube Division

from RMA release # 478, March 20, 1946

4.375" MAX

STOP PREVENTS EXCESSIVE INWARD TRAVEL OF TUNER

750

1250

CYLINDER

OUTPUT FLANGE

CAP IS CONCENTRIC WITH CYLINDER WITHIN .125"

CENTER OF BASE IS CONCENTRIC WITH O.D. OF CYLINDER WITHIN .125"

4.40 NC-2 TAP 4 HOLES

SMALL STANDARD OCTAL 8 PIN BASE

REFERENCE PLANE "B"

TUNING LEVER

4.625" MAX

2.312" MAX

2.004"

0.30"

1.250"

2.008"

360° ±.005"

4.065" NOM

750

1.000"

2.008"

2.497"

2.008"

2.687" MAX

0.94" MIN

1.500" MAX

1.87" ±.008"

1.77" ±.008"

1.500" ±.008"

0.63" ±.003"

90° ±.5"

0.63" ±.008"

1.593" ±.008"

1.186" ±.008"

1.200" ±.008"

0.63" ±.008"

2.19" ±.008"

438" ±.008"

1.5" ±.020"

1.5" ±.008"

MAX. 1.860"

(A) OUTPUT WAVEGUIDE—COMMERCIAL RECTANGULAR TUBING 1/4" x 1/2" OUTSIDE DIMENSIONS x .040 WALL THICKNESS.

(B) APPLIES TO LOCATION OF KEYWAY ON BASE LUG WITH RESPECT TO CENTER OF WAVEGUIDE MEASURED AT FLANGE END.

(C) INCLUDES LATERAL AND ANGULAR DEVIATIONS OF OUTER SURFACE OF FLANGE.

(D) INDICATES POINT ON TAPERED PORTION OF TUNING LEVER WHERE TUNING DEVICE MAKES CONTACT WITH LEVER AND IS LOCATED WITH RESPECT TO PLATE HOLES AS SHOWN.

(E) APPLIES TO DISTANCE BETWEEN HOLE AND CENTER OF TUNING LEVER ONLY.

(F) CENTER OF WAVEGUIDE PARALLEL TO SHORT DIMENSION IS WITHIN .20" OF REFERENCE PLANE "B".