



2K56

2K56 KLYSTRON

SINGLE-RESONATOR, REFLEX TYPE

Frequency: 3840 to 4460 Mc.

GENERAL DATA**Electrical:**

Heater, for Unipotential Cathode:

Voltage. 6.3 ± 0.5 ac or dc volts
 Current. 0.44 amp
 Frequency Range. 3840 to 4460 Mc

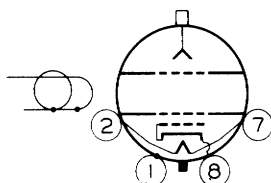
Mechanical:

Mounting Position. Any
 Dimensions, Terminal Connections,
 and Mechanical Tuning Mechanism. . . . See Outline Drawing
 Resonant Cavity. Integral Part of Tube
 Envelope Metal
 Cap. Miniature with Wafer
 Base Small-Wafer Octal 4-Pin with Pin No.4
 replaced by Coaxial Output Line

BOTTOM VIEW

Pin 1 - Shell,
Resonator

Pin 2 - Heater

Pin 7 - Heater
Pin 8 - CathodeCap - Reflector
Terminal

NOTE: COAXIAL OUTPUT LINE PASSES THROUGH
 VACANT PIN POSITION NO.4

CW OSCILLATOR - Class C**Maximum Ratings, Absolute Values:**

DC RESONATOR VOLTAGE 330 max. volts
 DC REFLECTOR VOLTAGE:
 Positive Value 0 max. volts
 Negative Value 400 max. volts
 DC RESONATOR CURRENT 37 max. ma
 PEAK HEATER-CATHODE VOLTAGE:
 Heater negative with respect to cathode. 50 max. volts
 Heater positive with respect to cathode. 50 max. volts
 AMBIENT TEMPERATURE OF SHELL 110 max. °C
 TEMPERATURE OF COAXIAL OUTPUT LINE 90 max. °C

Typical Operation [□] at 4150 Mc in Mode "A"
 with 1" x 2" Wave Guide

DC Resonator Voltage 300 volts
 DC Reflector Voltage Range[▲] -85 to -150 volts
 DC Resonator Current 25 ma
 DC Reflector Current less than 7 μ a

(continued on next page)

□, ▲: See next page.

NOV. 15, 1948

TUBE DEPARTMENT

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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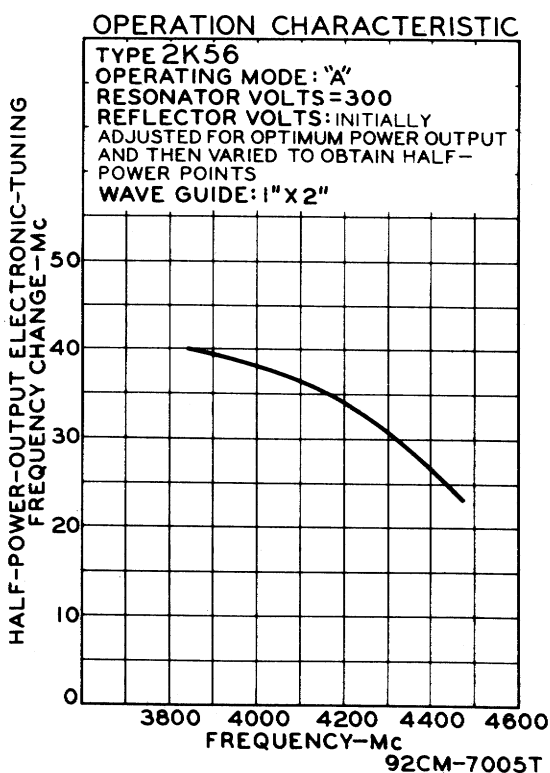
Half-Power Electronic-Tuning

Frequency Change [▲]	35	Mc
Power Output	90	mw

- ▲ Adjusted for maximum power output at the given operating frequency.
- Change in frequency between the two half-power points when the reflector voltage is varied above and below the point of maximum power output corresponding to the given frequency.
- The coaxial output line is coupled to the specified wave guide through the wide-band coaxial coupling unit shown on the following pages.

INSTALLATION and OPERATING NOTES for the 2K56 are the same as those shown for the 2K26, except that consideration should be given to the different coupling unit and wave guide required for the 2K56.

OUTLINE DIMENSIONS for Type 2K56 are the same as those for Type 2K26



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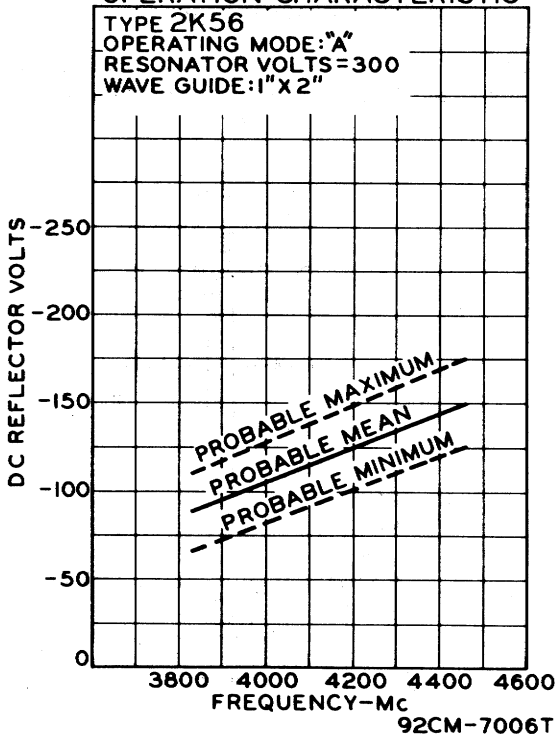


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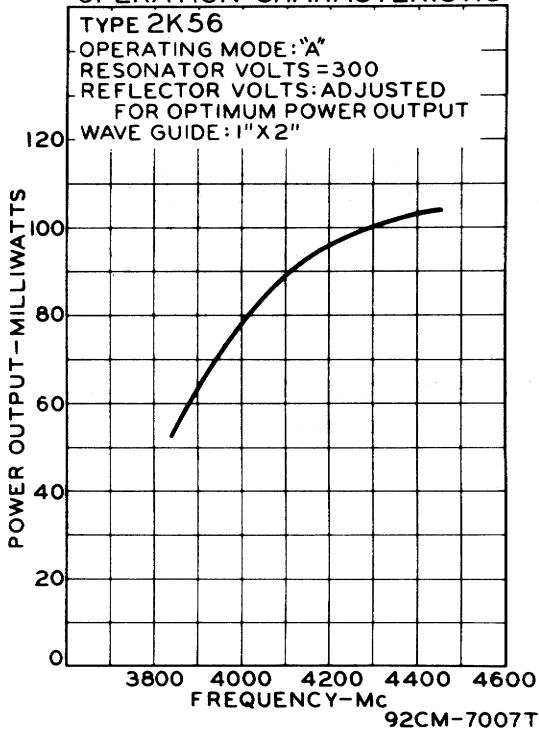
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OPERATION CHARACTERISTIC



OPERATION CHARACTERISTIC



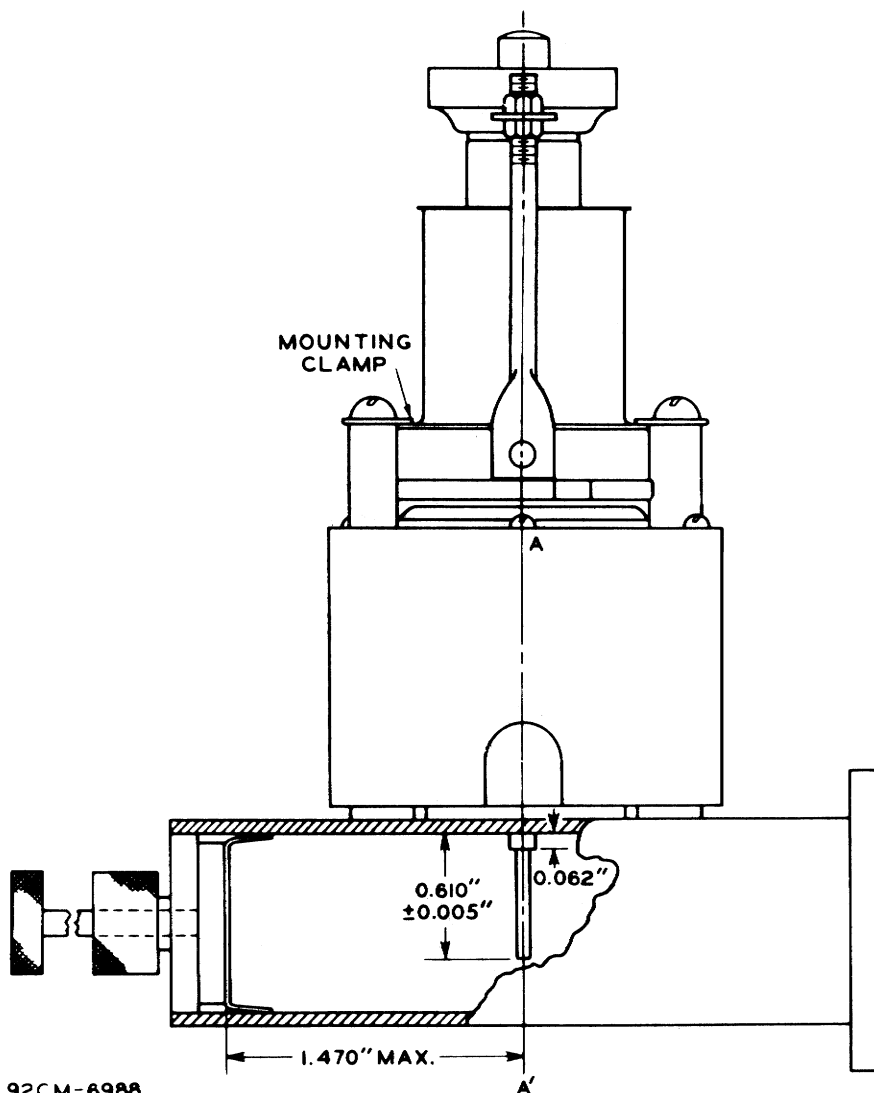
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COUPLING ARRANGEMENT

*RCA-2K56 Coupled to a 1" x 2" Wave Guide
Through a Coaxial Transducer Coupling
Circuit*



92CM-6988



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COUPLING ARRANGEMENT (Cont'd)

