



6AR5

POWER PENTODE

MINIATURE TYPE

6AR5

GENERAL DATA**Electrical:**

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts

Current. 0.4 amp

Mechanical:

Mounting Position. Any

Maximum Overall Length 2-5/8"

Maximum Seated Length. 2-3/8"

Length, Base Seat to Bulb Top (excluding tip). . . 2" $\pm$ 3/32"

Maximum Diameter 3/4"

Bulb T-5-1/2

Base Small-Button Miniature 7-Pin

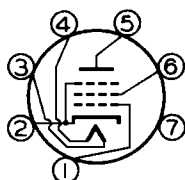
Basing Designation for BOTTOM VIEW 6CC

Pin 1 - Grid No.1

Pin 2 - Cathode,
Grid No.3

Pin 3 - Heater

Pin 4 - Heater



Pin 5 - Plate

Pin 6 - Grid No.2

Pin 7 - No
ConnectionAF POWER AMPLIFIER - Class A₁**Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE. 250 max. volts

GRID-No.2 (SCREEN) VOLTAGE 250 max. volts

PLATE DISSIPATION. 8.5 max. watts

GRID-No.2 DISSIPATION. 2.5 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . . 90 max. volts

Heater positive with respect to cathode. . . 90 max. volts

Typical Operation and Characteristics:

Plate Voltage. 250 250 volts

Grid-No.2 Voltage. 250 250 volts

Grid-No.1 (Control-Grid) Voltage . . . -16.5 -18 volts

Peak AF Grid-No.1 Voltage. 16.5 18 volts

Zero-Signal Plate Current. 34 32 ma

Max.-Signal Plate Current. 35 33 ma

Zero-Signal Grid-No.2 Current. 5.7 5.5 ma

Max.-Signal Grid-No.2 Current. 10 10 ma

Plate Resistance (Approx.) 65000 68000 ohms

Transconductance 2400 2300 μ mhos

Load Resistance. 7000 7600 ohms

Total Harmonic Distortion. 7 11 %

Max.-Sig. Power Output 3.2 3.4 watts

(continued on next page)

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Maximum Circuit Values (for maximum rated conditions):

Grid-No.1-Circuit Resistance:

For fixed bias.	0.1 max.	megohm
For cathode bias.	0.5 max.	megohm

*Curves for the 6AR5 are the same as those
shown for type 6K6-GT.*

MAY 20, 1949

TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA