6AR5
POWER PENTODE
MINIATURE TYPE

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" ± 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
Pin 3 - Heater
Pin 4 - Heater
Pin 5 - Plate
Pin 6 - Grid No. 2
Pin 7 - No Connection

AF 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 volts
Grid-No.2 Voltage: 250 volts
Grid-No.1 (Control-Grid) Voltage: -18 volts
Peak AF Grid-No.1 Voltage: 16.5 volts
Zero-Signal Plate Current: 34 ma
Max.-Signal Plate Current: 35 ma
Zero-Signal Grid-No.2 Current: 5.7 ma
Max.-Signal Grid-No.2 Current: 10 ma
Plate Resistance (Approx.): 65000 ohms
Transconductance: 2400 µmhos
Load Resistance: 7000 ohms
Total Harmonic Distortion: 7%
Max.-Sig. Power Output: 3.2 watts

(continued on next page)

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TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
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.