50A5
BEAM POWER AMPLIFIER

GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
  Voltage: 50 ac or dc volts
  Current: 0.15 amp

Mechanical:
Mounting Position: Any
Maximum Overall Length: 3-5/32"
Maximum Seated Length: 2-5/8"
Maximum Diameter: 1-3/16"
Bulb: T-9
Base: Lock-in 8-Pin
Basing Designation for BOTTOM VIEW: 6AA

AMPLIFIER — Class A1

Maximum Ratings, Design-Center Values:
PLATE VOLTAGE: 200 max. volts
GRID-No.2 (SCREEN) VOLTAGE: 117 max. volts
PLATE DISSIPATION: 10 max. watts
GRID-No.2 DISSIPATION: 1.25 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: 110 200 volts
Grid-No.2 Voltage: 110 110 volts
Grid-No.1 Voltage: -7.5 -8 volts
Peak A-F Grid No.1 Voltage: 7.5 8 volts
Zero-Signal Plate Current: 49 50 ma
Max.-Signal Plate Current: 50 55 ma
Zero-Signal Grid-No.2 Current: 4 1.5 ma
Max.-Signal Grid-No.2 Current: 8.5 6.0 ma
Plate Resistance (Approx.): 13000 35000 ohms
Transconductance: 8000 8250 μhos
Load Resistance: 2000 3000 ohms
Total Harmonic Distortion: 10 10 %
Max.-Sig. Power Output: 2.1 4.3 watts

Maximum Circuit Values (for maximum rated conditions):
Grid-No.1—Circuit Res.: { fixed bias 0.1 megohm
cathode bias 0.5 megohm

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