High-Mu Twin Triode

9-PIN MINIATURE TYPE
For High-Fidelity Audio-Amplifier Applications Critical as to Noise and Hum

GENERAL DATA

Electrical:
Heater, for Unipotential Cathodes:
Voltage (AC or DC) ................... 6.3 ± 10% volts
Current at 6.3 volts .................. 0.3 amp
Direct Interelectrode Capacitances
(Each Unit, Approx.):
Grid to plate ....................... 1.5 µuf
Grid to cathode and heater .......... 1.6 µuf
Plate to cathode and heater ........ 0.2 µuf

Equivalent Noise and Hum Voltage
(Referenced to Grid, Each Unit):
Average Value (RMS) .................. 1.8 µvolts
Measured in "true rms" units under the following conditions:
Heater volts (AC) = 6.3; center-tap of heater transformer connected to ground; plate supply volts (DC) = 250; plate load resistor (megohms) = 0.1; cathode resistor (ohms) = 2700; cathode bypass capacitor (µf) = 100; grid resistor (ohms) = 0; amplifier frequency range 25 to 10000 cps.

Characteristics, Class A Amplifier (Each Unit):
Plate Voltage ...................... 100 250 volts
Grid Voltage ....................... -1 -2 volts
Amplification Factor .............. 100 100
Plate Resistance (Approx.) ......... 80000 62500 ohms
Transconductance .................. 1250 1600 µmhos
Plate Current ...................... 0.5 1.2 ma

Mechanical:
Operating Position .................. Any
Maximum Overall Length .............. 2-3/16"
Maximum Seated Length .............. 1-15/16"
Length, Base Seat to Bulb Top (Excluding tip) 1-9/16" ± 3/32"
Diameter ................................ 0.750" to 0.875"
Dimensional Outline ................. See General Section
Bulb .................................. T6-1/2
Base .................................. Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW ........ 9LS

Pin 1-Heater
Pin 2-Heater
Pin 3-No Connection
Pin 4-Cathode of Unit No.2
Pin 5-Grid of Unit No.2
Pin 6-Plate of Unit No.2
Pin 7-Plate of Unit No.1
Pin 8-Grid of Unit No.1
Pin 9-Cathode of Unit No.1

RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA 1
8-60
AMPLIFIER — Class A1

Values are for Each Unit

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE: .................................. 330 max. volts
GRID VOLTAGE:
   Negative-bias value. .................. 55 max. volts
   Positive-bias value. .................. 0 max. volts
PLATE DISSIPATION: ......................... 1.2 max. watts
PEAK HEATER-CATHODE VOLTAGE:
   Heater negative with respect to cathode.. 200 max. volts
   Heater positive with respect to cathode.. 200 max. volts

Typical Operation as Resistance-Coupled Amplifier:

See RESISTANCE-COUPLED-AMPLIFIER CHART No. 25
at front of this Section

▲ The dc component must not exceed 100 volts.