Medium-Mu Triode

9-PIN MINIATURE TYPE
With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
Voltage (AC or DC) .................................. 6.3 volts
Current ........................................... 0.6 ± 6% amp
Warm-up time (Average) ............................ 11 sec

Direct Interelectrode Capacitances (Approx.):a
Grid to plate ..................................... 2.4 µµf
Grid to cathode and heater ....................... 4.2 µµf
Plate to cathode and heater ..................... 0.6 µµf

Characteristics, Class A1 Amplifier:
Plate Voltage ..................................... 250 volts
Grid Voltage ...................................... 8 volts
Amplification Factor .............................. 16.5
Plate Resistance (Approx.) ....................... 3700 ohms
Transconductance ............................... 4500 µµhos
Plate Current .................................... 24 ma
Plate Current for grid volts = -15 ....................................... 4 ma
Grid Voltage (Approx.) for plate µa = 50 ....................................... -22 volts

Mechanical:
Operating 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"
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 ........ 9AC

Pin 1 - Internal Connection—Do Not Use
Pin 2 - Cathode
Pin 3 - Grid
Pin 4 - Heater

Pin 5 - Heater
Pin 6 - Grid
Pin 7 - Same as Pin 1
Pin 8 - Same as Pin 1
Pin 9 - Plate

VERTICAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:
For operation in a 525-line, 30-frame system

DC PLATE VOLTAGE ..................................... 550 max. volts
PEAK POSITIVE-PULSE PLATE VOLTAGE ................................. 2200 max. volts
PEAK NEGATIVE-PULSE GRID VOLTAGE ..................................... 250 max. volts

--- Indicates a change.

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

DATA 1
1-62
CATHODE CURRENT:
  Peak. .......................... 105 max. ma
  Average ........................ 30 max. ma
PLATE DISSIPATION .................. 8.5 max. watts
PEAK HEATER-CATHODE VOLTAGE:
  Heater negative with respect to cathode. 200 max. volts
  Heater positive with respect to cathode. 200d max. volts

Maximum Circuit Values:
Grid-Circuit Resistance:
  For cathode-bias operation. . . . . 2.2 max. megohms

a Without external shield.
b As described in "Standards of Good Engineering Practice Concerning Tele-
vision Broadcast Stations," Federal Communications Commission.
c This rating is applicable where the duration of the voltage pulse does
not exceed 15 per cent of one vertical scanning cycle. In a 525-line,
30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milli-
seconds.
d The dc component must not exceed 100 volts.
AVERAGE CHARACTERISTICS

$E_f = 6.3$ VOLTS

GRID MILLIAMPERES ($I_c$)

PLATE MILLIAMPERES ($I_b$)

PLATE VOLTS

92CM-7373RI