TRIPLE-GRID SUPER-CONTROL AMPLIFIER
(TENTATIVE DATA)

HEATER VOLTAGE (A.C. or D.C.) 6.3 Volts
HEATER CURRENT 0.15 Ampere
DIRECT INTERELECTRODE CAPACITANCES:
Grid to Plate 0.005 max. μf
Input 6.5 μf
Output 10.5 μf
MAXIMUM OVERALL LENGTH 3-1/8"
MAXIMUM DIAMETER 1-5/16"
CAP Skirted Miniature - Style B
BASE Small Wafer Octal 7-Pin

Amplifier - Class A

OPERATING CONDITIONS and CHARACTERISTICS:
Heater Voltage 6.3 6.3 Volts
Plate Voltage 135 250 max. Volts
Screen Voltage 67.5 100 max. Volts
Grid Voltage (Minimum) -3 -3 Volts
Suppressor Connected to cathode at socket
Plate Current 3.7 8.5 Milliamperes
Screen Current 0.9 2.0 Milliamperes
Amplification Factor (Approx.) - 1750
Plate Resistance (Approx.) - 1.0 Megohm
Transconductance 1250 1750 Micromhos
Grid voltage for transconductance = 10 micromhos -25 -38.5 Volts

* With shell connected to cathode.
* In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

Pin Connections
Pin 1 = Shell
Pin 2 = Heater
Pin 3 = Plate
Pin 4 = Screen
Pin 5 = Suppressor
Pin 7 = Heater
Pin 8 = Cathode
Cap = Grid

from RMA release #129, Feb. 23, 1938
E_P = 6.3 VOLTS SUPPRESSOR VOLTS = 0
SCREEN VOLTS = 100

PLATE MILLIAMPERES

JAN. 17, 1938   RCA RADIOFON DIVISION   RCA MANUFACTURING COMPANY, INC.  92C-4868
MECHANICAL DATA

Coated unipotential cathode
Outline drawing: 8-2
Base
Top cap
Maximum diameter
Maximum overall length
Maximum seated height
Pin connections:
  Pin 1 - Shell, internal shield
  Pin 2 - Heater
  Pin 3 - Plate
  Pin 4 - Grid #2
  Pin 5 - Grid #3
  Pin 7 - Heater
  Pin 8 - Cathode
Top cap - Grid #1
Mounting position: any

ELECTRICAL DATA

Direct Interelectrode Capacitances*

Grid to plate (g1 to p) max. 0.005 μf
Input: g1 to (h+k+g2+g3+S) 6.5 μf
Output: p to (h+k+g2+g3+S) 10.5 μf

*Pin 1 connected to pin 8.

Ratings

Heater voltage: 6.3 volts
Maximum plate voltage: 300 volts
Maximum grid #2 voltage: See J5-04
Maximum grid #2 supply voltage: 300 volts
Maximum positive dc grid #1 voltage: 0 volts
Maximum plate dissipation: 2.25 watts
Maximum grid #2 dissipation: 0.25 watt
Maximum heater-cathode voltage: 90 volts

Typical Operating Conditions and Characteristics, Class A1 Amplifier

Heater voltage: 6.3 volts
Heater current: 150 ma
Plate voltage: 135 volts
Grid #2 voltage: 67.5 volts
Grid #1 voltage: -3 volts
Grid #3 voltage: Pin 5 connected to pin 8 at socket
Plate resistance (approx.): 1.0 megohm
Transconductance: 1250 1750 μmhos
Plate current: 3.7 ma
Grid #2 current: 0.9 ma
Grid #1 voltage (approx.) for Gm = 10 μmhos: -25 -38 volts

Refer to "Interpretation of Receiving Tube Ratings"