Remote-Cutoff Pentode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
Voltage (AC or DC).................. 18 volts
Current............................ 0.1 ± 6% amp
Direct Interelectrode Capacitances:
Grid No.1 to plate.................. 0.0035 max. µf
Grid No.1 to cathode, grid No.3, grid No.2, and heater........ 5.5 µf
Plate to cathode, grid No.3, grid No.2, and heater........ 5 µf

Characteristics, Class A1 Amplifier:
Plate Supply Voltage................ 100 volts
Grid No.3 .................................. Connected to cathode at socket
Grid-No.2 Supply Voltage............ 100 volts
Cathode Resistor...................... 68 ohms
Plate Resistance (Approx.)......... 0.25 megohm
Transconductance................... 4400 µhmos
Plate Current......................... 11 ma
Grid-No.2 Current.................... 4.4 ma
Grid-No.1 Voltage (Approx.)
for transconductance (µhmos) = 25... -20 volts

Mechanical:
Operating Position.................... Any
Maximum Overall Length.............. 2-1/8"
Maximum Seated Length.............. 1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)........ 1-1/2"± 3/32"
Diameter............................. 0.650" to 0.750"
Dimensional Outline................. See General Section
Bulb................................. T5-1/2
Base................................. Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW............ 7CC

Pin 1—Grid No.1
Pin 2—Grid No.3, Internal Shield
Pin 3—Heater
Pin 4—Heater
Pin 5—Plate
Pin 6—Grid No.2
Pin 7—Cathode

AMPLIFIER — Class A1

Maximum Ratings, Design-Maximum Values:
PLATE VOLTAGE.......................... 150 max. volts
GRID No.3 (SUPPRESSOR GRID)........ Connected to cathode at socket
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE........ 150 max. volts

→ Indicates a change.
GRID-No.2 VOLTAGE . . . . . See Grid-No.2 Input Rating Chart at front of Receiving Tube Section

GRID-No.2 INPUT:
- For grid-No.2 voltages up to 75 volts . . 0.6 max. watt
- For grid-No.2 voltages between 75 and 150 volts . . . . . See Grid-No.2 Input Rating Chart at front of Receiving Tube Section

PLATE DISSIPATION . . . . . . . 2.5 max. watts

PEAK HEATER-CATHODE VOLTAGE:
- Heater negative with respect to cathode . 100 max. volts
- Heater positive with respect to cathode . 100 max. volts

* With external shield JEDEC No.316 connected to cathode.
AVERAGE CHARACTERISTICS

$E_f = 18$ VOLTS
PLATE VOLTS = 100
GRID N°3 CONNECTED TO CATHODE AT SOCKET.
GRID-N°2 VOLTS = 100

PLATE VOLTS

GRID-N°1 VOLTS $E_{C1}$

$E_{C1}$

$E_{C2}$

$E_{C3}$

PLATE (I_B) OR GRID-N°2 (I_C2) MILLIAMPERES

92CM-10778