Sharp-Cutoff Tetrode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:
  Voltage (AC or DC).................. 6.3 ± 10% volts
  Current at 6.3 volts................ 0.2 amp

Direct Interelectrode Capacitances:
  Grid No.1 to plate.................. 0.035 max. μμf
  Grid No.1 to cathode & internal shield,
    grid No.2, and heater ............. 4.50 μμf
  Plate to cathode & internal shield,
    grid No.2, and heater ............. 2.90 μμf

Characteristics, Class A1 Amplifier:

Plate Voltage ....................... 250 volts
Grid-No.2 Voltage ................... 80 volts
Grid-No.1 Voltage ................... -1 volt
Plate Resistance (Approx.) ......... 0.15 megohm
Transconductance ................... 8800 μμhos
Plate Current......................... 11.5 mA
Grid-No.2 Current ................... 0.9 mA
Grid-No.1 Voltage (Approx.) for
  transconductance (μμhos) = 100. .... -4.5 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 ........ 7EW

Pin 1 – Grid No.1
Pin 2 – Cathode, internal Shield
Pin 3 – Heater
Pin 4 – Heater

Pin 5 – Plate
Pin 6 – Grid No.2
Pin 7 – Cathode, Internal Shield

AMPLIFIER – Class A1

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE ....................... 275 max. volts
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE .... 180 max. volts
GRID-No.2 VOLTAGE .................. See Grid-No.2 Input Rating Chart
  at front of Receiving Tube Section
GRID-No.1 (CONTROL-GRID) VOLTAGE:
  Positive-bias value.................. 0 max. volts
CATHODE CURRENT.................... 20 max. ma
GRID-No.2 INPUT:
  For grid-No.2 voltages up to 90 volts.. 0.2 max. watt
  For grid-No.2 voltages between 90 and
  180 volts............. See Grid-No.2 Input Rating Chart
  at front of Receiving Tube Section
PLATE DISSIPATION..................... 3.25 max. watts
PEAK HEATER-CATHODE VOLTAGE:
  Heater negative with respect to cathode. 100 max. volts
  Heater positive with respect to cathode. 100 max. volts

Maximum Circuit Values:
Grid-No.1-Circuit Resistance........... 0.5 max. megohm

a With external shield JEDEC No.316 connected to cathode.
b The dc component must not exceed 50 volts.