

Sharp-Cutoff Tetrode

7-PIN MINIATURE TYPE
For Mobile-Communications Equipment

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):Voltage (AC or DC) 6.3 $\begin{smallmatrix} +1.2 \\ -0.3 \end{smallmatrix}$ volts

Current at heater volts = 6.3 0.200 amp

Peak heater-cathode voltage:

Heater negative with respect to cathode 100 max. volts

Heater positive with respect to cathode 100^a max. voltsDirect Interelectrode Capacitances:^bGrid No.1 to plate 0.03 max. μ fGrid No.1 to cathode & internal shield, grid No.2, and heater 4.4 μ fPlate to cathode & internal shield, grid No.2, and heater 2.74 μ fCharacteristics, Class A₁ Amplifier:

Plate Voltage 125 volts

Grid-No.2 Voltage 80 volts

Grid-No.1 Voltage -1 volt

Plate Resistance (Approx.) 0.125 megohm

Transconductance 8000 μ mos

Plate Current 10 ma

Grid-No.2 Current 1.4 ma

Grid-No.1 Voltage (Approx.) for transconductance (μ mos) = 100. -5 volts

Mechanical:

Operating Position Any

Type of Cathode Coated Unipotential

Maximum Overall Length 2-1/8"

Maximum Seated Length 1-7/8"

Length, Base Seat to Bulb Top (Excluding tip) 1-1/2" $\pm$ 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)

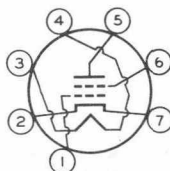
Basing Designation for BOTTOM VIEW 7EW

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

ER — Class A₁

imum Values:

. 180 max. volts
 PLY VOLTAGE. . . 180 max. volts
 . See *Grid-No. 2 Input Rating Chart*
 at front of Receiving Tube Section
 LTAGE:
 0 max. volts
 20 max. ma
 0.5 max. watt
 —
 . See *Grid-No. 2 Input Rating Chart*
 at front of Receiving Tube Section
 2 max. watts

e. 0.5 max. megohm

GS & PERFORMANCE DATA

ation. 2000 min. cycles

on a sample lot of tubes from each
following conditions: heater volts
on and one minute off, heater 135
to cathode and all other elements
the end of this test, tubes are
shorts and open circuits.

Heater Voltage:

. 5900 μmhos

.0, plate volts = 125, grid-No.2
= -1.

ed 50 volts.

316 connected to cathode.