Picture Tube

RECTANGULAR GLASS TYPE
LOW-VOLTAGE ELECTROSTATIC FOCUS
LOW-GRID-No.2 VOLTAGE

ALUMINIZED SCREEN
92° MAGNETIC DEFLECTION
CATHODE-DRIVE TYPE

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:
Heater Current at 6.3 volts ........ 600 ± 10% ma
Heater Warm-Up Time (Average) ....... 11 seconds
Direct Interelectrode Capacitances:
  Grid No.1 to all other electrodes ... 6 μuf
  Cathode to all other electrodes .... 5 μuf
  External conductive coating to ulti... 2000 max. μuf
  ........... 1500 min. μuf

Electron Gun ........ Type Requiring No Ion-Trap Magnet

Optical:
Faceplate ......................... Filterglass
  Light transmission (Approx.) .......... 78%
Phosphor (for curves, see front of this section) .... P4—Sulfide Type, Aluminized

Mechanical:
Operating Position .................. Any
Weight (Approx.) .................... 15 lbs
Overall Length ..................... 15-1/4" ± 3/8"
Neck Length ......................... 5-1/2" ± 3/16"
Projected Area of Screen ............ 172 sq. in.
External Conductive Coating:
  Type .......................... Regular Band
  Contact area for grounding .......... Near Reference Line

For Additional Information on Coatings and Dimensions:
  See Picture-Tube Dimensional-Outlines and Bulb J149 B sheets
  at the front of this section

Cap ............................... Recessed Small Cavity (JEDEC No.J1-21)
Bases (Alternates):
  Short Small-Shell Duodecal 6-Pin (JEDEC Group 4, No.B6-203)
  Small-Shell Duodecal 6-Pin, Arrangement 1
    (JEDEC Group 4, No.B6-63)
  Basing Designation for BOTTOM VIEW ........ 12L

Pin 1—Heater
Pin 2—Grid No.1
Pin 6—Grid No.4
Pin 10—Grid No.2
Pin 11—Cathode
Pin 12—Heater

Cap—Ultor
  (Grid No.3,
   Grid No.5,
   Collector)
  C—External
  Conductive Coating

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

DATA
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Maximum and Minimum Ratings, Design-Maximum Values:

ULTOR-TO-GRID-No.1 VOLTAGE.

\[ \begin{array}{ll}
19800 \text{ max. volts} \\
12000 \text{ min. volts}
\end{array} \]

GRID-No.4-TO-GRID-No.1 (FOCUSING) VOLTAGE:

- Positive value: 1100 max. volts
- Negative value: 500 max. volts

GRID-No.2-TO-GRID-No.1 VOLTAGE:

- 70 max. volts
- 40 min. volts

CATHODE-TO-GRID-No.1 VOLTAGE: 100 max. volts

HEATER VOLTAGE: 7 max. volts
- 5.8 min. volts

PEAK HEATER-CATHODE VOLTAGE:

- Heater negative with respect to cathode:
  - During equipment warm-up period not exceeding 15 seconds: 410 max. volts
  - After equipment warm-up period: 180 max. volts
- Heater positive with respect to cathode: 180 max. volts

Typical Operating Conditions:

- With utor-to-grid-No.1 voltage of 14500 volts
- and grid-No.2-to-grid-No.1 voltage of 50 volts

Grid-No.4-to-Grid-No.1 Voltage for focus: 0 to 500 volts

Cathode-to-Grid-No.1 Voltage for visual extinction of focused raster: 31 to 49 volts

Maximum Circuit Values:

- Grid-No.1-Circuit Resistance: 1.5 max. megohms

For X-radiation shielding considerations, see sheet X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES at front of this section.