Picture Tube

BI-PANEL RECTANGULAR GLASS TYPE
LOW-VOLTAGE ELECTROSTATIC FOCUS
ALUMINIZED SCREEN
92° MAGNETIC DEFLECTION
With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:
Heater Current at 6.3 volts ........ 600 ± 5% ma
Heater Warm-Up Time (Average) .... 11 seconds
Direct Interelectrode Capacitances:
  Grid No.1 to all other electrodes ... 6 µµf
  Cathode to all other electrodes ... 5 µµf
  External conductive coating to ultor ... (2500 max. µµf
                                            2000 min. µµf
Electron Gun ........ Type Requiring No Ion-Trap Magnet

Optical:
Faceplate and Protective Panel ........ Filterglass
  Light transmission (Approx.) ......... 40%
Phosphor (for curves, see front of this Section): P4—Sulfide Type,
  Aluminized

Mechanical:
Operating Position .................. Any
Weight (Approx.) .................. 34-1/2 lbs
Overall Length .................. 18-5/16" ± 7/16"
Neck Length .................. 5-1/2" ± 3/16"
Projected Area of Screen ........ 282 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 J187 DIG sheets
  at the front of this section
Cap ........................ Receded Small Cavity (JEDEC No. J1-21)
Base ........................ Short Small-Shell Duodecal 6-Pin
  (JEDEC Group 4, No. B6-203)
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
3–62
Maximum and Minimum Ratings, Design-Maximum Values:

ULTOR VOLTAGE ............... (22000 max. volts
                                 (12000 min. volts

GRID-No.4 (FOCUSING) VOLTAGE:
  Positive value ................ 1100 max. volts
  Negative value ............... 550 max. volts

GRID-No.2 VOLTAGE ............... 550 max. volts

GRID-No.1 VOLTAGE:
  Negative peak value ......... 220 max. volts
  Negative bias value .......... 155 max. volts
  Positive bias value .......... 0 max. volts
  Positive peak value .......... 2 max. volts

PEAK HEATER-CATHODE VOLTAGE:
  Heater negative with
  respect to cathode:
    During equipment warm-up period
      not exceeding 15 seconds .......... 450 max. volts
    After equipment warm-up period .... 200 max. volts
  Heater positive with
  respect to cathode .............. 200 max. volts

Typical Operating Conditions:

  With  ctor voltage of          16000 volts
  and grid-No.2 voltage of        300 volts

  Grid-No.4 Voltage for focus .... 0 to 400 volts
  Grid-No.1 Voltage for visual extinction
    of focused raster ............ -35 to -72 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