Picture Tube

RECTANGULAR GLASS TYPE
LOW-VOLTAGE ELECTROSTATIC FOCUS
ALUMINIZED SCREEN
90° MAGNETIC DEFLECTION

GENERAL DATA

Electrical:
Heater Current at 6.3 volts ........... 600 ± 10% ma
Direct Interelectrode Capacitances:
  Grid No.1 to all other electrodes ........ 6 μF
  Cathode to all other electrodes ........ 5 μF
  External conductive coating to ultor. ... {2500 max. μF
  ...................................... 2000 min. μF
Electron Gun. ................ Type Requiring No Ion-Trap Magnet

Optical:
Faceplate, Spherical. .................. Filterglass
Light transmission (Approx.) ............. 75%
Phosphor (for curves, see front of this section) ... P4—Sulfide Type, Aluminized

Mechanical:
Operating Position. ....................... Any
Weight (Approx.) . ........................ 35 lbs
Overall Length. ......................... 19-1/8" ± 3/8"
Neck Length ......................... 5-1/2" ± 3/16"
Projected Area of Screen ................. 332 sq. in.
External Conductive Coating:
  Type ................................ Special
  Contact area for grounding ................ Near Reference Line
For Additional Information on Coatings and Dimensions:
  See Picture-Tube Dimensional-Outlines and Bulb J192 A/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, Collector)
  Conduction Coating

C—External Coating

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

DATA 1-63
Maximum Ratings, Design-Maximum Values:

ULTOR VOLTAGE ............... 22000 max. volts
GRID-No.4 (FOCUSED) VOLTAGE:
   Positive value ............... 1100 max. volts
   Negative value ............... 550 max. volts
GRID-No.2 VOLTAGE ............... 550 max. volts
GRID-No.1 VOLTAGE:
   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 ultor voltage of 18000 volts
and grid-No.2 voltage of 300 volts
Grid-No.4 Voltage for focus ............... -50 to +350 volts
Grid-No.1 Voltage for visual extinction of focused raster ............... -28 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