Picture Tube

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

ALUMINIZED SCREEN
110° MAGNETIC DEFLECTION
CATHODE-DRIVE TYPE

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:
Heater Current at 6.3 volts........ 450 ± 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: { 1700 max. μμf
{ 1200 min. μμf

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

Optical:
Faceplate.................. Filterglass
Light transmission (Approx.)...... 77%
Phosphor (For curves, see front of this section) P4—Sulfide Type, Aluminized

Mechanical:
Operating Position........... Any
Weight (Approx.).............. 10 lbs
Overall Length.............. 12-1/8" ± 1/4"
Neck Length.................. 5" ± 1/8"
Projected Area of Screen...... 155 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 J192-1/2 A/B sheets at the front of this section

Cap.................. Recessed Small Cavity (JEDEC No.J1-21)
Base.................. Special 6-Pin (JEDEC No.B6-214)
Basing Designation for BOTTOM VIEW........ .7FA

Pin 2—Cathode
Pin 3—Heater
Pin 4—Heater
Pin 5—Grid No.1
Pin 6—Grid No.4
Pin 7—Grid No.2

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 Ratings, Design-Maximum Values:
ULTOR-TO-GRID-No.1 VOLTAGE. .......... 17600 max. volts
GRID-No.4-TO-GRID-No.1 (FOCUSING) VOLTAGE:
   Positive value. ...................... 1100 max. volts
   Negative value. ...................... 550 max. volts
GRID-No.2-TO-GRID-No.1 VOLTAGE. ....... 70 max. volts
CATHODE-TO-GRID-No.1 VOLTAGE:
   Positive bias value ................. 150 max. volts
   Negative 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-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 .......... -200 to +350 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