Picture Tube

**RECTANGULAR GLASS TYPE**

**LOW-VOLTAGE ELECTROSTATIC FOCUS**

**ALUMINIZED SCREEN**

**92° MAGNETIC DEFLECTION**

**GENERAL DATA**

**Electrical:**

Heater Current at 6.3 volts .................. 600 ± 5% ma

Direct Interelectrode Capacitances:

- Grid No.1 to all other electrodes .......... 6 μμf
- Cathode to all other electrodes .......... 5 μμf
- External conductive coating to ультор .......... [2000 max. μμf
- [1500 min. μμf

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.) ............................ 14–3/4 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 - Uльтor

[Grid No.3, Collector]
[C - External Conductive Coating]
Maximum Ratings, Design-Maximum Values:

ULTOR VOLTAGE ........................................ 20000 max. volts
GRID-No.4 (FOCUSBNG) 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 ................................. 154 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
    and grid-No.2 voltage of
      16000 volts
      400 volts
  Grid-No.4 Voltage for focus .................... 0 to 400 volts
  Grid-No.1 Voltage for visual
    extinction of focused raster ................ -36 to -94 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