Picture Tube

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

GENERAL DATA

Electrical:
Direct Interelectrode Capacitances:
- Cathode to all other electrodes: 5 pf
- Grid No.1 to all other electrodes: 6 pf
- External conductive coating to anode: 1500 max. to 1000 min. pf
- Heater Current at 6.3 volts: 600 ± 30 ma
- Electron Gun: Type Requiring No Ion-Trap Magnet

Optical:
- Phosphor (for curves, see front of this section): P4—Sulfide Type, Aluminized
- Faceplate, Spherical: Filterglass
- Light transmission (Approx.): 74%

Mechanical:
- Weight (Approx.): 15 lbs
- Overall Length: 14-5/8" ± 3/8"
- Neck Length: 5-1/2" ± 3/16"
- Projected Area of Screen: 149 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 J133 F/G sheets at front of this section.

Cap. Recessed Small Cavity (JEDEC No.J1-21)
Bases (Alternates):
- Small-Shell Duodecal 6-Pin (JEDEC Group 4, No.B6-63)
- Short Small-Shell Duodecal 6-Pin (JEDEC 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—Anode
  - (Grid No.3, Grid No.5, Screen, Collector)
  - C—External Conductive Coating

<indicates a change>
Maximum and Minimum Ratings, Design-Maximum Values:

Unless otherwise specified, voltage values are positive with respect to cathode

ANODE VOLTAGE. ........................................... \{17500 max. volts

GRID-No.4 (FOCUSHING) VOLTAGE:
Positive value ............................................. 11000 min. 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

HEATER VOLTAGE ........................................... \{6.9 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:
Combined AC and DC voltage ........................................... 200 max. volts
DC component .................................................. 100 max. volts

Typical Operating Conditions for Grid-Drive Service:

Unless otherwise specified, voltage values are positive with respect to cathode

Anode Voltage ................................................ 14000 volts
Grid-No.4 Voltage ........................................... -55 to +300 volts
Grid-No.2 Voltage .......................................... 300 volts
Grid-No.1 Voltage for visual extinction of focused raster ........................................... -28 to -72 volts

Maximum Circuit Value:
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

→ Indicates a change.