**Picture Tube**

**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: \(1500 \text{ max.} \) pf, \(750 \text{ min.} \) pf
- Heater Current at 6.3 volts: 600 ± 30 ma
- Electron Gun: Type Requiring No Ion-Trap Magnet

**Optical:**
- Phosphor: P4—Sulfide Type, Aluminized
- Faceplate: Cylindrical Filterglass
- Light transmission (Approx.): 66%

**Mechanical:**
- Weight (Approx.): 19 lbs
- Overall Length: 19-3/16" ± 3/8""
- Neck Length: 7-1/2" ± 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 J193 C/E sheets at front of this section
- Cap.: Recessed Small Cavity (JEDEC No. J1-21)
- Base: Small-Shell Duodecal 6-Pin (JEDEC Group 4, No. B6-63)
- Basing Designation for BOTTOM VIEW: 12L

**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 (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
HEATER VOLTAGE. ............ \{6.9 max. volts
\{5.7 min. 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 ............. -56 to +310 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.