Picture Tube

PAN-O-Ply Type

90° Magnetic Deflection

Low-Grid-No.2 Voltage

Electrical

Direct Inter-electrode Capacitances
- Cathode to all other electrodes: 5 pF
- Grid No.1 to all other electrodes: 6 pF
- External conductive coating to anode: 300 min—750 max pF

Heater Current at 12V: 75 ± 7 mA

Heater Warm-Up Time (Average): 11 s

Electron Gun: Type Requiring No Ion-Trap Magnet

Optical

Phosphor: Pu—Sulfide Type, Aluminized
- For curves, see front of this section

Faceplate: Filterglass
- Light transmission at center (Approx.): 49.5%

Mechanical

Weight (Approx.): 3.1 lb

Overall Length: 8.28 max in

Neck Length: 3.55 max in

Projected Area of Screen: 38 sq in

External Conductive Coating:
- Type (See CRT OUTLINES 1 at front of this section): Regular-Band
- Contact area for grounding: Near Reference Line

Cap.: Recessed Small Cavity (JEDEC No.J1-21)

Base: Small-Button Special Miniature 7-Pin
( JEDEC No.E7-91 )

Terminal Diagram (Bottom View)

Pin 1—Grid No.1
Pin 2—Cathode
Pin 3—Heater
Pin 4—Heater
Pin 5—Grid No.1
Pin 6—Grid No.2
Pin 7—Grid No.4
Cap—Grid No.3, Grid No.5, Screen, Collector
C—External Conductive Coating

Maximum and Minimum Ratings, Design—Maximum Values

Voltages are positive with respect to cathode

Anode Voltage: 8000 min—12000 max V

Grid-No.4 Voltage
- Positive value: 1100 max V
- Negative value: 550 max V

Grid-No.2 Voltage: 75 min—250 max V

RCA
Electronic Components and Devices
Harrison, N. J.
Grid-No.1 Voltage
- Negative peak value: 220 max V
- Negative bias value: 155 max V
- Positive bias value: 0 max V
- Positive peak value: 2 max V

Heater Voltage: 10.8 min—13.2 max V

Peak Heater-Cathode Voltage
- Heater negative with respect to cathode:
  - During equipment warm-up period ≤ 15 s: 450 max V
  - After equipment warm-up period: 200 max V
- Heater positive with respect to cathode:
  - Combined AC & DC voltage: 200 max V
  - DC component: 100 max V

TYPICAL OPERATING CONDITIONS FOR CATHODE-DRIVE SERVICE

Voltages are positive with respect to grid No.1

- Anode Voltage: 9000 V
- Grid-No.4 Voltage: 0 to 300 V
- Grid-No.2 Voltage: 100 V
- Cathode Voltage: 32 to 50 V

For visual extinction of focused raster
- Field Strength: 0 to 8 G
  - Of required adjustable centering magnet

MAXIMUM CIRCUIT VALUE
- Grid-No.1 Circuit Resistance: 1.5 max MΩ

* Includes implosion protection hardware.

DIMENSIONAL OUTLINE (BULB J71-1/2 B1)