PAN-O-PLY TYPE

110° MAGNETIC DEFLECTION  LOW-VOLTAGE ELECTROSTATIC FOCUS

Direct Interelectrode Capacitances
- Cathode to all other electrodes...
- Grid No.1 to all other electrodes...
- External conductive coating to anode...

Heater Current at 6.3 V...
Heater Warm-Up Time (Average)...

Electron Gun...

Type Requiring No Ion-Trap Magnet

OPTICAL

Phosphor...
- P4—Sulfide Type, Aluminized

For curves, see front of this section

Faceplate...
- Filterglass

Light transmission at center (approx.)...

MECHANICAL

Weight (Approx.)...
Overall Length...
Neck Length...
Projected Area of Screen...

External Conductive Coating
- Type (See CRTOUTLINES at front of this section)
- Regular-Band
- Contact area for grounding...

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

Base...
- Small-Button Nocoeight 7-Pin, Arrangement I. (JEDEC No.B7-208)

TERMINAL DIAGRAM (Bottom View)

Pin 1—Heater
Pin 2—Grid No.1
Pin 3—Grid No.2
Pin 4—Grid No.4
Pin 5—Grid No.1
Pin 7—Cathode
Pin 8—Heater

Cap—Anode (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...
Grid-No.4 Voltage
- Positive value...
- Negative value...

Grid-No.2 Voltage...
100 min—250 max V

Grid-No.1 Voltage
- Negative peak value...
- Negative bias value...
- Positive bias value...
- Positive peak value...

Heater Voltage...
5.7 min—6.9 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................................. 300 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........................................................... 11000 V
Grid-No. 4 Voltage...................................................... 0 V
Grid-No. 2 Voltage...................................................... 150 V
Cathode Voltage........................................................ 31 to 49 V

For visual extinction of focused raster

MAXIMUM CIRCUIT VALUE

Grid-No. 1 Circuit Resistance........................................ 1.5 max MΩ

*Includes implosion protection hardware.

For X-radiation shielding considerations, see sheet

X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES at
front of this section

DIMENSIONAL OUTLINE (BULB J87B)

DIMENSIONS IN INCHES