Picture Tube

FILLED-RIM TYPE

114° MAGNETIC DEFLECTION

Direct Interelectrode Capacitances
Cathode to all other electrodes... 5 pF
Grid No. 1 to all other electrodes... 6 pF
External conductive coating to anode... 1.250 min—1.750 max pF

Heater Current at 6.3 V. 600 ± 30 mA
Heater Warm-Up Time (Average). 11 s
Electron Gun. Type Requiring No Ion-Trap Magnet

OPTICAL
Phosphor. P4—Sulfide Type, Aluminized
Faceplate. Filterglass
Light transmission at center (Approx.) 48%

MECHANICAL
Weight (Approx.) 16 lb
Overall Length 11.625 ± .250 in
Neck Length 4.375 ± .125 in
Projected Area of Screen 172 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 Nectaritar 7-Pin,
Arrangement I, (JEDEC No.B7-208)

TERMINAL DIAGRAM (Bottom View)

ANODE
G4
G2
G1

Pin 1—Heater
Pin 2—Grid No. 1
Pin 3—Grid No. 2
Pin 4—Grid No. 4
Pin 6—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. 11000 min—23000 max V
Grid-No.4 Voltage
Positive value 1100 max V
Negative value 550 max V
Grid-No.2 Voltage
200 min—550 max V
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 5.7 min—6.9 max V

RADIO CORPORATION OF AMERICA
Electronic Components and Devices
Harrison, N. J.
Peak Heater-Cathode Voltage
Heater negative with respect to cathode:
During equipment warm-up period \( \leq 15 \) s \( \ldots \) \( 450 \text{ max } V \)
After equipment warm-up period \( \ldots \) \( 300 \text{ max } V \)
Heater positive with respect to cathode:
Combined AC & DC voltage \( \ldots \) \( 200 \text{ max } V \)
DC component \( \ldots \) \( 100 \text{ max } V \)

TYPICAL OPERATING CONDITIONS FOR CATHODE-DRIVE SERVICE

Voltages are positive with respect to grid No.1

Anode Voltage \( \ldots \) \( 16000 \text{ V} \)
Grid-No.4 Voltage \( \ldots \) \( 0 \text{ to } 400 \text{ V} \)
Grid-No.2 Voltage \( \ldots \) \( 300 \text{ V} \)
Cathode Voltage \( \ldots \) \( 28 \text{ to } 62 \text{ V} \)

For visual extinction of focused raster

Field Strength \( \ldots \) \( 0 \text{ to } 8 \text{ G} \)

Of required adjustable centering magnet

MAXIMUM CIRCUIT VALUE

Grid-No.1 Circuit Resistance \( \ldots \) \( 1.5 \text{ max } \Omega \)

\( ^a \) Includes implosion protection hardware.

DIMENSIONAL OUTLINE
(Bulb J149 F)

MINIMUM SCREEN

DIAGONAL \( 17562 \)
GREATEST WIDTH \( 15.88 \)
GREATEST HEIGHT \( 12.00 \)

SHELL OPENING \( 15.845 \) \( 48 \) R.

1.125 \( \pm 0.043 \) DIA.

21R.

1.844

102

11.625 \( \pm 2.25 \)

4.375 \( \pm 0.125 \)

7.250 \( \pm 0.125 \)

BASE
JEDEC
NO.
B7-206

CAVITY CAP
JEDEC
NO.J1-21

1.562 \( \pm 0.125 \)

SHELL OPENING \( 12.658 \) MIN.

20.875 \( \pm 0.094 \)

SHELL OPENING \( 18.174 \) MIN.

REFERENCE LINE
DETERMINED BY
GAUGE
JEDEC NO. G-126

92LS-1572

DIMENSIONS IN INCHES

DATA
RADIO CORPORATION OF AMERICA
Electronic Components and Devices
Harrison, N. J.