

Picture Tube

FILLED-RIM TYPE

110° MAGNETIC DEFLECTION

LOW GRID-No.2 VOLTAGE

Direct Interelectrode Capacitances

Cathode to all other electrodes. . .	5	pF
Grid No.1 to all other electrodes. .	6	pF
External conductive coating to anode ^a	1700 min—2500 max	pF
Heater Current at 6.3 V.	450 ± 20	mA
Heater Warm-Up Time (Average). . . .	11	s
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.) 42 %	

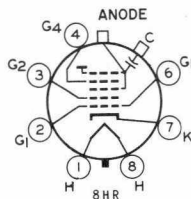
MECHANICAL

Weight (Approx.)	29 lb
Overall Length	14.250 ± .281 in
Neck Length	4.500 ± .125 in
Projected Area of Screen	282 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 Neoeightar 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 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 grid No.1

Anode Voltage	11000 min—23000 max	V
Grid-No.4 Voltage		
Positive value.	1250 max	V
Negative value.	400 max	V
Grid-No.2 Voltage	25 min—60 max	V
Cathode Voltage		
Negative peak value	2 max	V
Negative bias value	0 max	V
Positive bias value	100 max	V
Positive peak value	150 max	V
Heater Voltage.	5.7 min—6.9 max	V



23FRP4

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 16000 V

Grid-No.4 Voltage 0 to 400 V

Grid-No.2 Voltage 50 V

Cathode Voltage 32 to 50 V

For visual extinction of focused raster

Field Strength. 0 to 10 G

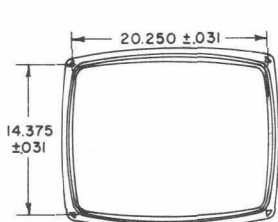
Of required adjustable centering magnet

MAXIMUM CIRCUIT VALUE

Grid-No.1 Circuit Resistance. 1.5 max M Ω

^a Includes implosion protection hardware.

DIMENSIONAL OUTLINE (Bulb J187 K)

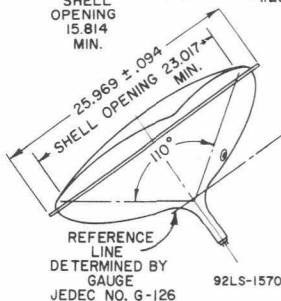
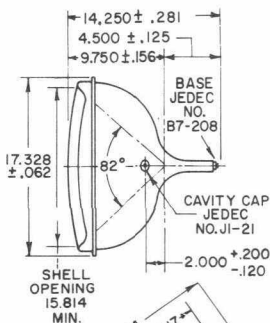
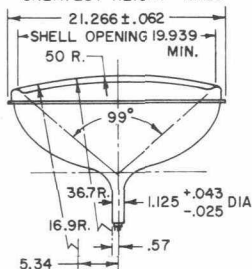


MINIMUM SCREEN

DIAGONAL 22.312

GREATEST WIDTH 19.250

GREATEST HEIGHT 15.125



DIMENSIONS IN INCHES

DATA

RADIO CORPORATION OF AMERICA
Electronic Components and Devices

Harrison, N. J.

