

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 ^a . . .	1250 min—1750 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

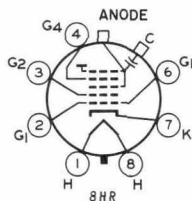
Phosphor	P4—Sulfide Type, Aluminized
For curves, see front of this section	
Faceplate.	Filterglass
Light transmission at center (Approx.)	48 %

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 Neoeightar 7-Pin, Arrangement 1, (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 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



19EBP4

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. 300 V

Cathode Voltage. 28 to 62 V

For visual extinction of focused raster

Field Strength 0 to 8 G

Of required adjustable centering magnet

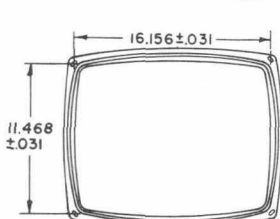
MAXIMUM CIRCUIT VALUE

Grid-No.1 Circuit Resistance 1.5 max M Ω

a Includes implosion protection hardware.

DIMENSIONAL OUTLINE

(Bulb J149 F)

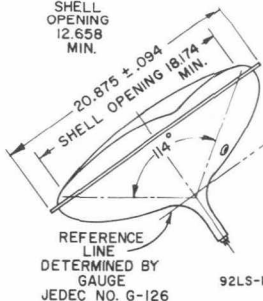
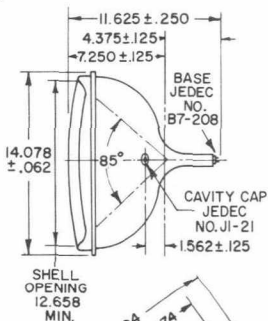
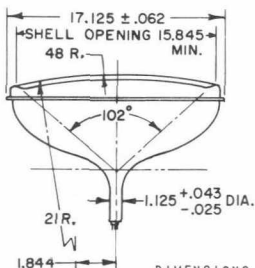


MINIMUM SCREEN

DIAGONAL 17.562

GREATEST WIDTH 15.188

GREATEST HEIGHT 12.000



92LS-1572

DIMENSIONS IN INCHES

DATA

RADIO CORPORATION OF AMERICA

Electronic Components and Devices

Harrison, N. J.

