

23EZP4

Picture Tube

PAN-O-PLY TYPE WITH MOUNTING LUGS
 94° MAGNETIC DEFLECTION
 LOW-VOLTAGE ELECTROSTATIC FOCUS
 LOW-GRID-No.2 VOLTAGE
 CATHODE-DRIVE TYPE

ELECTRICAL

Direct Interelectrode Capacitances
 Cathode to all other electrodes. 5 pF
 Grid No.1 to all other electrodes. 6 pF
 External conductive coating to anode 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.) 30 lb
Overall Length 17.080 ± .312 in
Neck Length. 5.000 ± .125 in
Projected Area of Screen 282 sq in
External Conductive Coating^a

Type Regular-Band
 Contact area for grounding. Near Reference Line

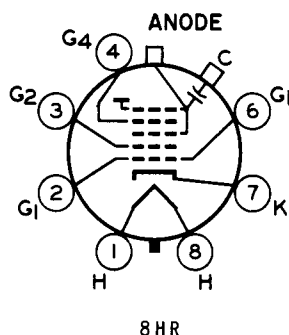
For Additional Information on Coatings and Dimensions

See *Picture-Tube Dimensional-Outlines* and *Bulb J187M* sheets
 at front of this section

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



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MAXIMUM AND MINIMUM RATINGS, DESIGN-MAXIMUM VALUES

Voltages are positive with respect to Grid No. 1

Anode Voltage.	11000 min—23500 max	V
Grid-No.4 Voltage		
Positive value	1250 max	V
Negative value	400 max	V
Grid-No.2 Voltage.	20 min—70 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
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.	18000	V
Grid-No.4 Voltage ^b	200	V
Grid-No.2 Voltage.	50	V
Cathode Voltage.	34 to 52	V

For visual extinction of focused raster

MAXIMUM CIRCUIT VALUE

Grid-No.1 Circuit Resistance	1.5 max	M Ω
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^a Includes implosion protection hardware.

^b The grid-No.4 voltage required for optimum focus of any individual tube will have a value anywhere between 0 and +400 volts with the combined grid-No.1 voltage and video-signal voltage adjusted to give an anode current of 200 microamperes on a 13-1/2 inch by 18-inch pattern from an RCA-2F21 monoscope, or equivalent.

For X-radiation shielding considerations, see sheet
X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES
at front of this section

