

Picture Tube

RECTANGULAR GLASS TYPE
LOW-VOLTAGE ELECTROSTATIC FOCUS

ALUMINIZED SCREEN
94° MAGNETIC DEFLECTION

Low-Grid-No.2-Voltage Type
for Cathode-Drive Operation

GENERAL DATA

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 $\begin{cases} 2500 \text{ max.} \\ 1700 \text{ min.} \end{cases}$ pf

Heater Current at 6.3 volts. 600 ± 30 ma

Heater Warm-Up Time (Average). 11 seconds

Electron Gun Type Requiring No Ion-Trap Magnet

Optical:

Phosphor (For curves, see front of this section) P4--Sulfide Type,
Aluminized

Faceplate Filterglass

Light transmission (Approx.). 78%

Mechanical:

Weight (Approx.). 27 lbs

Overall Length. $17-5/64" \pm 5/16"$

Neck Length $5" \pm 1/8"$

Projected Area of Screen. 282 sq. in.

External Conductive Coating:

Type. Regular-Band

Contact area for grounding. Near Reference Line

For Additional Information on Coatings, Dimensions, and Deflection Angles:

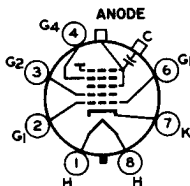
See *Picture-Tube Dimensional-Outlines and Bulb J187 H1* sheets at the front of this section.

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

Base. Small-Button Neoeightar 7-Pin,
Arrangement 1, (JEDEC No.87-208)

Basing Designation for BOTTOM VIEW. 8HR

- 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



23DAP4

Maximum and Minimum Ratings, Design-Maximum Values:

Unless otherwise specified, voltage values are positive with respect to grid No. 1

ANODE VOLTAGE	{ 23000 max. 10000 min.	volts volts
GRID-No.4 VOLTAGE:		
Positive value.	1100 max.	volts
Negative value.	550 max.	volts
GRID-No.2 VOLTAGE	{ 70 max. 40 min.	volts volts
CATHODE VOLTAGE:		
Negative peak value	2 max.	volts
Negative bias value	0 max.	volts
Positive bias value	100 max.	volts
Positive peak value	150 max.	volts
HEATER VOLTAGE.	{ 6.9 max. 5.7 min.	volts volts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode:		
During equipment warm-up period not exceeding 15 seconds.	450 max.	volts
After equipment warm-up period.	200 max.	volts
Heater positive with respect to cathode:		
Combined AC & DC voltage.	200 max.	volts
DC Component.	100 max.	volts

Typical Operating Conditions for Cathode-Drive Service:

Unless otherwise specified, voltage values are positive with respect to grid No. 1

Anode Voltage	18000	volts
Grid-No.4 Voltage ^a	100	volts
Grid-No.2 Voltage	50	volts
Cathode Voltage for visual extinction of focused raster.	35 to 55	volts
Field Strength of required adjustable Centering Magnet	0 to 12	gausses

Maximum Circuit Value:

Grid-No.1 Circuit Resistance.	1.5 max.	megohms
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For X-radiation shielding considerations, see sheet

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

^a The grid-No.4 voltage required for optimum focus of any individual tube will have a value anywhere between -100 and +300 volts.

