

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

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:

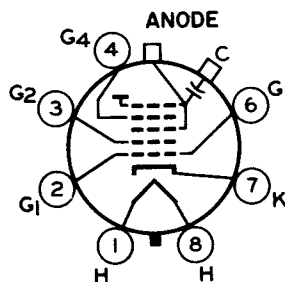
Weight (Approx.).	27	lbs
Overall Length.	$17-5/64" \pm 5/16"$	
Neck Length	$5" \pm 1/8"$	
Projected Area of Screen.	282 sq. in.	
External Conductive Coating:		

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 Noveightar 7-Pin, Arrangement 1, (JEDEC No.B7-208)
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.

