

Picture Tube

RECTANGULAR GLASS TYPE WITH
INTEGRAL PROTECTIVE WINDOW

ALUMINIZED SCREEN
114° MAGNETIC DEFLECTION

LOW-VOLTAGE ELECTROSTATIC FOCUS

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	{ 1500 max. 1000 min.	{ pf pf
Heater Current at 6.3 volts.	450 ± 20	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 and Protective Window.	Filterglass
Light transmission (Approx.)	60%

Mechanical:

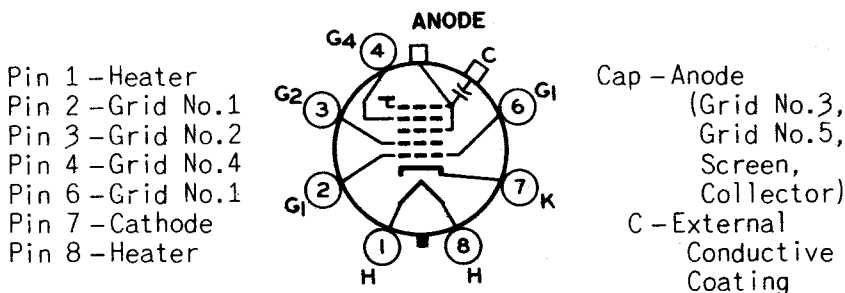
Weight (Approx.)	15.5 lbs
Overall Length	11.56" ± 0.31"
Neck Length.	4.12" ± 0.12"
Projected Area of Screen	172 sq. in.
External Conductive Coating:	

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 J149 C1* sheets at front of this section

Cap	Recessed Small Cavity (JEDEC No.J1-21)
Base.	Small-Button Neoeightar 7-Pin, Arrangement 1, (JEDEC No.B7-208)

Basing Designation for BOTTOM VIEW.	8HR
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19CZP4

Maximum and Minimum Ratings, Design-Maximum Values:

Unless otherwise specified, voltage values are positive with respect to cathode

Anode Voltage.	{ 23000 max. 15000 min.	volts volts
Grid-No.4 (Focusing) Voltage:		
Positive value	1100 max.	volts
Negative value	550 max.	volts
Grid-No.2 Voltage.	{ 550 max. 200 min.	volts volts
Grid-No.1 Voltage:		
Negative peak value.	220 max.	volts
Negative bias value.	155 max.	volts
Positive bias value.	0 max.	volts
Positive peak value.	2 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	200 max.	volts

Typical Operating Conditions for Cathode-Drive Service:

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

Anode Voltage	20000	volts
Grid-No.4 Voltage ^a	200	volts
Grid-No.2 Voltage	400	volts
Cathode Voltage for visual extinction of focused raster.	42 to 78	volts

Maximum Circuit Value:

Grid-No.1-Circuit Resistance.	1.5 max.	megohms
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^a The grid-No.4 voltage required for optimum focus of any individual tube will have a value anywhere between 0 to +400 volts.

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

