

Picture Tube

SHORT RECTANGULAR GLASS TYPE ALUMINIZED SCREEN
 LOW-VOLTAGE ELECTROSTATIC FOCUS 114° MAGNETIC DEFLECTION
 INTERNAL MAGNETIC SHIELD

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Direct Interelectrode Capacitances:

Cathode to all other electrodes	3.4	pf
Grid No.1 to all other electrodes	3.4	pf
External conductive coating to anode. . .	1400 max.	pf
	850 min.	pf
Heater Current at 2.68 volts.	450 ± 45	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.). 77%

Mechanical:

Weight (Approx.). 14 lbs
 Overall Length. 10-15/16" ± 3/16"
 Neck Length. 3-11/16" ± 1/16"
 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 and Dimensions:

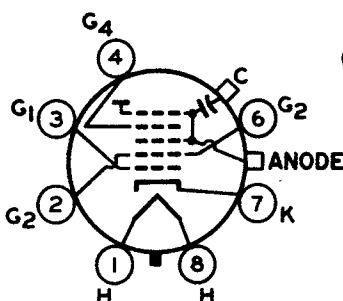
See *Picture-Tube Dimensional-Outlines and Bulb J149 A* sheets
 at front of this section

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. 8JK

Pin 1—Heater
 Pin 2—Grid No.2
 Pin 3—Grid No.1
 Pin 4—Grid No.4
 Pin 6—Grid No.2
 Pin 7—Cathode
 Pin 8—Heater



Cap - Anode
 (Grid No.3,
 Grid No.5,
 Screen,
 Collector)
 C - External
 Conductive
 Coating



19ABP4

Maximum and Minimum Ratings, Design-Maximum Values:

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

ANODE VOLTAGE	20000 max.	volts
GRID-No.4 (FOCUSING) VOLTAGE:		
Positive value.	950 max.	volts
Negative value.	700 max.	volts
GRID-No.2 VOLTAGE	550 max.	volts
GRID-No.1 VOLTAGE:		
Negative peak value	400 max.	volts
Negative bias value	155 max.	volts
Positive bias value	0 max.	volts
Positive peak value	2 max.	volts
HEATER VOLTAGE.	{ 2.9 max. 2.4 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 and DC voltage.	200 max.	volts
DC component.	100 max.	volts

Typical Operating Conditions for Grid-Drive Service:

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

Anode Voltage	16000	volts
Grid-No.4 Voltage	100 to 500	volts
Grid-No.2 Voltage	300	volts
Grid-No.1 Voltage for visual extinction of focused raster.	-35 to -72	volts

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

