

Picture Tube

SHORT RECTANGULAR GLASS TYPE ALUMINIZED SCREEN
 LOW-VOLTAGE ELECTROSTATIC FOCUS 110° MAGNETIC DEFLECTION
 INTERNAL MAGNETIC SHIELD

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Direct Interelectrode Capacitances:

Cathode to all other electrodes	3.65	pf
Grid No.1 to all other electrodes	4.15	pf
External conductive coating to anode.	$\begin{cases} 2000 \text{ max.} \\ 1500 \text{ min.} \end{cases}$	$\begin{matrix} \text{pf} \\ \text{pf} \end{matrix}$

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, Spherical.	Filterglass
Light transmission (Approx.)	75.5%

Mechanical:

Weight (Approx.)	20 lbs
Overall Length.	$12-15/16" \pm 1/4"$
Neck Length	$3-11/16" \pm 1/16"$
Projected Area of Screen.	262 sq. in.
External Conductive Coating:	

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

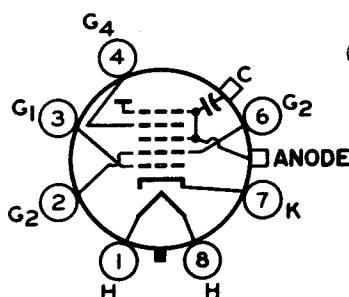
For Additional Information on Coatings and Dimensions:

See *Picture-Tube Dimensional-Outlines and Bulb J171 G/K* 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



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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.	volts
	{ 2.4 min.	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

