

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:

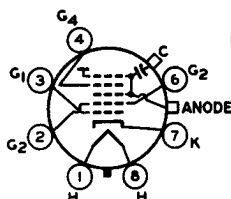
Type. Regular-Band
 Contact area for grounding. Near Reference Line
 For Additional Information on Coatings and Dimensions:

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

