

Picture Tube

SHORT RECTANGULAR GLASS TYPE
 LOW-VOLTAGE ELECTROSTATIC FOCUS
 ALUMINIZED SCREEN
 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 .	{ 1400 max.	pf
	{ 900 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, Spherical	Filterglass
Light transmission (Approx.)	77%

Mechanical:

Weight (Approx.)	10 lbs
Overall Length	10-13/16" ± 3/16"
Neck Length.	3-11/16" ± 1/16"
Projected Area of Screen	155 sq. in.
External Conductive Coating:	

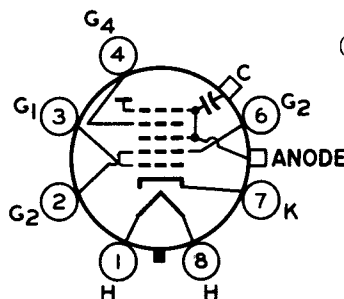
Type	Modified-Band
Contact area for grounding	Near Reference Line
For Additional Information on Coatings and Dimensions:	

See *Picture-Tube Dimensional-Outlines and Bulb J132-1/2 A/B* 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



17DRP4

Maximum and Minimum Ratings, Design-Maximum Values:

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

ANODE VOLTAGE	17600 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	14000	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

