

Picture Tube

SHORT RECTANGULAR GLASS TYPE
LOW-VOLTAGE ELECTROSTATIC FOCUS

ALUMINIZED SCREEN
110° MAGNETIC DEFLECTION

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater Current at 6.3 volts.	600 ± 5%	ma
Heater Warm-Up Time (Average).	11	seconds
Direct Interelectrode Capacitances:		
Grid No.1 to all other electrodes. . .	6	μf
Cathode to all other electrodes. . .	5	μf
External conductive coating to ultor .	{ 2000 max. 1500 min.	{ μf μf
Electron Gun	Type Requiring No Ion-Trap Magnet	

Optical:

Faceplate.	Filterglass
Light transmission (Approx.)	76%
Phosphor (For curves, see front of this Section) .	P4—Sulfide Type, Aluminized

Mechanical:

Operating Position	Any
Weight (Approx.)	20 lbs
Overall Length	13-1/8" ± 1/4"
Neck Length.	3-7/8" ± 1/16"
Projected Area of Screen	262 sq. in.
External Conductive Coating:	

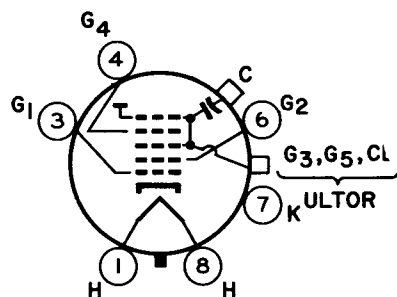
Type	Regular Band
Contact area for grounding	Near Reference Line
For Additional Information on Coatings and Dimensions:	

See *Picture-Tube Dimensional-Outlines* and *Bulb J171 G/K* sheets at the 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 VIEW8KW

- Pin 1—Heater
- Pin 3—Grid No.1
- Pin 4—Grid No.4
- Pin 6—Grid No.2
- Pin 7—Cathode
- Pin 8—Heater
- Cap—Ultor (Grid No.3,
Grid No.5, Collector)
- C—External Conductive
Coating



21FDP4

Maximum Ratings, Design-Maximum Values:

ULTOR VOLTAGE.	20000 max.	volts
GRID-No.4 (FOCUSING) VOLTAGE:		
Positive value	1100 max.	volts
Negative value	550 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
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:

<i>With ultor voltage of</i>	16000	volts
<i>and grid-No.2 voltage of</i>	300	volts
Grid-No.4 Voltage for focus.	+100 to +500	volts
Grid-No.1 Voltage for visual extinction of focused raster	-35 to -72	volts

Maximum Circuit Values:

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

