

Picture Tube

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.	450 ± 5%	ma
Heater Warm-Up Time (Average).	11	seconds
Direct Interelectrode Capacitances:		
Grid No.1 to all other electrodes. . .	6	μμf
Cathode to all other electrodes. . . .	5	μμf
External conductive coating to ultor .	{ 2500 max.	μμf
	{ 1700 min.	μμf
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 PositionAny
Weight (Approx.)	20 lbs
Overall Length	14-11/16" + 5/16" - 5/8"
Neck Length.	5-7/16" + 1/8" - 7/16"
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)

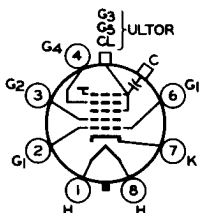
Bases (Alternates):

Small-Button Eightar 7-Pin, Arrangement 2,
(JEDEC No.B7-183)

Small-Button Neoeightar 7-Pin, Arrangement 1,
(JEDEC No.B7-208)

Basing Designation for BOTTOM VIEW8HR

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



- Cap—Ultor
(Grid No.3,
Grid No.5,
Collector)
- C—External
Conductive
Coating



21DHP4

Maximum Ratings, Design-Maximum Values:

ULTOR VOLTAGE.	19800 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.	220 max.	volts
Negative bias value.	154 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:

With ultor voltage of	16000	volts
and grid-No.2 voltage of	300	volts
Grid-No.4 Voltage for focus.	0 to 400	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

