

## 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	μμf
Cathode to all other electrodes. . . .	5	μμf
External conductive coating to ultor .	{ 2000 max. 1500 min.	{ μμf μμf
Electron Gun . . . . .	Type Requiring No Ion-Trap Magnet	

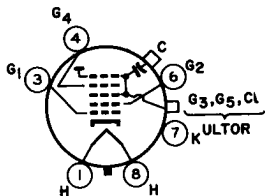
#### Optical:

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

#### Mechanical:

Operating 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 <i>Picture-Tube Dimensional-Outlines</i> and <i>Bulb J171 G/K</i> 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 VIEW . . . . .	. . . . .	.8KW

- 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:

With ultor voltage of	16000	volts
and grid-No.2 voltage of	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

