

Picture Tube

RECTANGULAR GLASS TYPE
LOW-VOLTAGE ELECTROSTATIC FOCUS

ALUMINIZED SCREEN
70° MAGNETIC DEFLECTION

Electrical:

Heater Current at 6.3 volts	600 ± 30	ma
Direct Interelectrode Capacitances:		
Grid No.1 to all other electrodes . . .	6	pf
Cathode to all other electrodes	5	pf
External conductive coating to anode. .	{ 1500 max.	pf
	{ 500 min.	pf
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.).	75%

Mechanical:

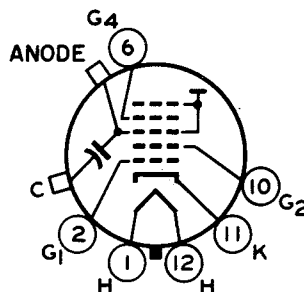
Weight (Approx.).	30 lbs
Overall Length.	21-3/4" ± 3/8"
Neck Length	7-1/2" ± 3/16"
Projected Area of Screen.	215 sq.in.
External Conductive Coating:	

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

See *Picture-Tube Dimensional-Outlines and Bulb J161 C/D* sheets at front of this section

Cap Recessed Small Cavity (JEDEC No.J1-21)
Base. . . Small-Shell Duodecal 6-Pin (JEDEC Group 4, No.B6-63)
Basing Designation for BOTTOM VIEW. 12L

Pin 1—Heater
Pin 2—Grid No.1
Pin 6—Grid No.4
Pin 10—Grid No.2
Pin 11—Cathode
Pin 12—Heater



Cap—Anode
(Grid No.3,
Grid No.5,
Screen,
Collector)
C—External
Conductive
Coating

Maximum and Minimum Ratings, Design-Maximum Values:

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

ANODE VOLTAGE	17500 max.	volts
GRID-No.4 (FOCUSING) VOLTAGE:		
Positive value.	1100 max.	volts
Negative value.	550 max.	volts



20HP4E

GRID-No.2 VOLTAGE	550 max.	volts
GRID-No.1 VOLTAGE:		
Negative bias value	140 max.	volts
Positive bias value	0 max.	volts
Positive peak value	2 max.	volts
HEATER VOLTAGE.	{ 6.9 max.	volts
	{ 5.7 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 :	-56 to +310	volts
Grid-No.2 Voltage	300	volts
Grid-No.1 Voltage for visual extinction of focused raster.	-28 to -72	volts

Maximum Circuit Value:

Grid-No.1-Circuit Resistance.	1.5 max.	megohms
---------------------------------------	----------	---------

For X-radiation shielding considerations, see sheet
X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES
at front of this Section

