

Picture Tube

RECTANGULAR GLASS TYPE
LOW-VOLTAGE ELECTROSTATIC FOCUS

ALUMINIZED SCREEN
70° MAGNETIC DEFLECTION

Electrical:

Direct Interelectrode Capacitances:

Cathode to all other electrodes.	5	pf
Grid No.1 to all other electrodes.	6	pf
External conductive coating to anode	{ 1500 max.	pf
	{ 750 min.	pf
Heater Current at 6.3 volts.	600 ± 30	ma
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.) 74%

Mechanical:

Weight (Approx.) 18 lbs
Overall Length 19-3/16" ± 3/8"
Neck Length. 7-1/2" ± 3/16"
Projected Area of Screen 149 sq. in.

External Conductive Coating:

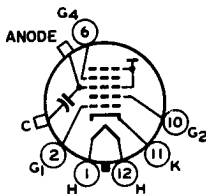
Type Regular-Band
Contact area for grounding Near Reference Line

For Additional Information on Coatings and Dimensions:

See *Picture-Tube Dimensional-Outlines and Bulb J133 B/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



17HP4C

GRID-No.2 VOLTAGE.	550 max.	volts
GRID-No.1 VOLTAGE:		
Negative peak value.	220 max.	volts
Negative bias value.	155 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
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For X-radiation shielding considerations, see sheet
X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES
at front of this Section

