

# 17LP4B

## 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. 750 min.	pf
Heater Current at 6.3 volts. . . . .		600 ± 30
Electron Gun . . . . .	Type Requiring No Ion-Trap Magnet	

### Optical:

Phosphor (For curves, see front of this section). P4—Sulfide Type,  
Aluminized

Faceplate, Cylindrical . . . . . Filterglass

Light transmission (Approx.) . . . . . 66%

### Mechanical:

Weight (Approx.) . . . . . 19 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

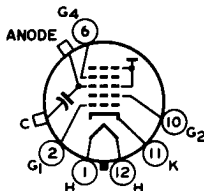
For Additional Information on Coatings and Dimensions:  
See *Picture-Tube Dimensional-Outlines and Bulb J133 C/E* sheets  
at front of this section

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



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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

