21XP4B

Picture Tube

LOW-VOLTAGE ELECTROSTATIC FOCUS 70° MAGNETIC DEFLECTION
NO ION-TRAP MAGNET REQUIRED

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	2500 max 2000 min	pF pF

Heater Current at 6.3 V . . . . . 600 ± 30 mA
Electron Gun . . . . . .Type Requiring No Ion-Trap Magnet

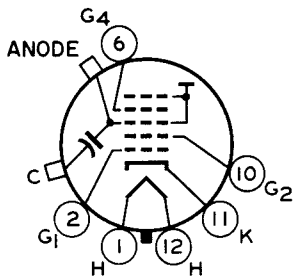
OPTICAL

Phosphor . . . . . P4—Sulfide Type, Aluminized
For curves, see front of this section
Faceplate. . . . . .Filterglass
Light Transmission (Approx.) 73%

MECHANICAL

Weight (Approx.) . . . . . .24 lb
Overall Length . . . . . 22.438 ± 0.375 in
Neck Length. . . . . 7.500 ± 0.188 in
Projected Area of Screen . . . . . 224 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 J165 Z* 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	20000 max	V
Grid-No.4 (Focusing) Voltage		
Positive value	1100 max	V
Negative value	550 max	V

Grid-No.2 Voltage	550 max	V
Grid-No.1 Voltage		
Negative peak value	220 max	V
Negative bias value	155 max	V
Positive bias value	0 max	V
Positive peak value	2 max	V
Heater Voltage	6.9 max 5.7 min	V V
Peak Heater-Cathode Voltage		
Heater negative with respect to cathode:		
During equipment warm-up period not exceeding 15 seconds	450 max	V
After equipment warm-up period	200 max	V
Heater positive with respect to cathode:		
Combined AC and DC voltage	200 max	V
DC Component	100 max	V

TYPICAL OPERATING CONDITIONS FOR GRID-DRIVE SERVICE

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

Anode Voltage	16000	V
Grid-No.4 Voltage	-64 to 352	V
Grid-No.2 Voltage	300	V
Grid-No.1 Voltage	-28 to -72	V
For visual extinction of focused raster		

MAXIMUM CIRCUIT VALUE

Grid-No.1-Circuit Resistance	1.5 max	MΩ

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