

Picture Tube

LOW-VOLTAGE ELECTROSTATIC FOCUS

NO ION-TRAP MAGNET REQUIRED

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	{ 2500 max 2000 min	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		

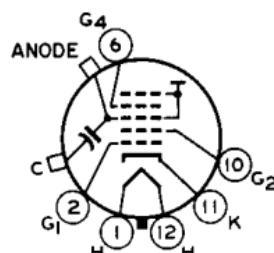
Type Regular-Band
Contact area for grounding Near Reference Line

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.JI-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



21XP4B

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	V
	{ 5.7	min	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
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For X-radiation shielding considerations, see sheet

X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES
at front of this section

