

Picture Tube

RECTANGULAR GLASS TYPE
LOW-VOLTAGE ELECTROSTATIC FOCUS

ALUMINIZED SCREEN
90° MAGNETIC DEFLECTION

With Heater Having Controlled Warm-Up Time

GENERAL DATA

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.	1200 max.	pf
	800 min.	pf

Heater Current at 6.3 volts 600 ± 30 ma

Heater Warm-Up Time (Average) 11 seconds

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.). 78%

Mechanical:

Weight (Approx.). 8.5 lbs

Overall Length. 13-3/16" ± 5/16"

Neck Length. 5-1/2" ± 3/16"

Projected Area of Screen. 104 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 J112 A/B* sheets
at front of this section

Cap Recessed Small Cavity (JEDEC No.J1-21)

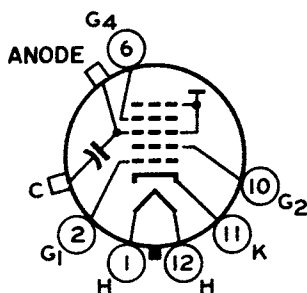
Bases (Alternates):

Small-Shell Duodecal 6-Pin (JEDEC Group 4, No.B6-63)

Short Small-Shell Duodecal 6-Pin (JEDEC No.B6-203)

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



14WP4

Maximum and Minimum Ratings, Design-Maximum Values:

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

ANODE VOLTAGE.	{ 15500 max. 9000 min.	volts volts
GRID-No. 4 (FOCUSING) VOLTAGE:		
Positive value	1100 max.	volts
Negative value	550 max.	volts
GRID-No. 2 VOLTAGE	550 max.	volts
GRID-No. 1 VOLTAGE:		
Negative peak value.	220 max.	volts
Negative bias value.	200 max.	volts
Positive bias value.	0 max.	volts
Positive peak value.	2 max.	volts
HEATER VOLTAGE	{ 6.9 max. 5.7 min.	volts 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.	12000	volts
Grid-No.4 Voltage.	-50 to + 350	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

