

Picture Tube

NO ION-TRAP MAGNET REQUIRED

**RECTANGULAR GLASS TYPE
MAGNETIC FOCUS**

**ALUMINIZED SCREEN
90° 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	$\left\{ \begin{array}{l} 2500 \text{ max.} \\ 500 \text{ min.} \end{array} \right.$	$\left\{ \begin{array}{l} \text{pf} \\ \text{pf} \end{array} \right.$
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.	Filterglass
Light transmission (Approx.)	72%

Mechanical:

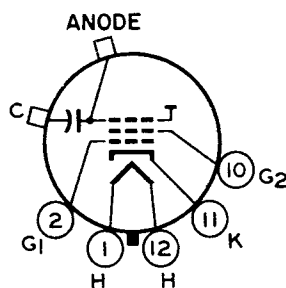
Weight (Approx.)	44 lbs
Overall Length	23.062" $\pm$.375"
Neck Length.	7.500" $\pm$.188"
Projected Area of Screen	425 sq. in.
External Conductive Coating:	

Type	Regular-Band
Contact area for grounding	Near Reference Line
For Additional Information on Coatings and Dimensions:	

See *Picture-Tube Dimensional-Outlines and Bulb J214-1/2 A* sheets at front of this section

Cap.	Recessed Small Cavity (JEDEC No. J1-21)
Base	Small-Shell Duodecal 5-Pin (JEDEC Group 4, No. B5-57)
Basing Designation for BOTTOM VIEW.	12N

- Pin 1—Heater
- Pin 2—Grid No.1
- Pin 10—Grid No.2
- Pin 11—Cathode
- Pin 12—Heater
- Cap—Anode (Grid No.3,
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.	22000 max.	volts
Grid-No.2 Voltage.	550 max.	volts



27RP4A

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. . . 200 max. volts

Typical Operating Considerations for Cathode-Drive Service:

*Unless otherwise specified, voltage values
are positive with respect to grid No.1*

Anode Voltage. 18000 volts

Grid-No.2 Voltage. 400 volts

Cathode Voltage for visual extinction of
focused raster 36 to 78 volts

Maximum Circuit Value:

Grid-No.1 Circuit Resistance 1.5 max. megohms

For X-radiation shielding considerations, see sheet

X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES

At front of this section

