

**CIRCUIT VALUES** 

Grid No. 1 Circuit Resistance .

# engineering data service

## **24ANP4**

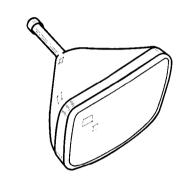
**SYLVANIA** 

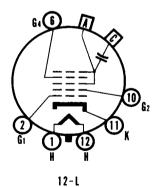
### CHARACTERISTICS

CHARACIERISTICS	
GENERAL DATA	
Focusing Method Electrostatic Deflecting Method	
Deflection Angle  Horizontal	Degrees Degrees
Phosphor	
Faceplate	Percent
ELECTRICAL DATA	
Heater Voltage	Seconds
Cathode to All Other Electrodes	μμf μμf μμf Max. μμf Min.
Ion Trap Magnet External, Single Field Type	μμι 141111.
MECHANICAL DATA	
Minimum Useful Screen Dimensions	Sq. Inches
RATINGS	
MAXIMUM RATINGS (Absolute Maximum Values)	
Anode Voltage	Volts dc Volts dc Volts dc
Negative Bias Value	Volts dc Volts Volts dc Volts
After Equipment Warm-up Period 200	Volts Volts
Heater Positive with Respect to Cathode 200	Volts
TYPICAL OPERATING CONDITIONS	
Grid No. 1 Voltage Required for Cutoff <sup>3</sup> —35 to —72	Volts dc Volts dc Volts dc Ma dc

## QUICK REFERENCE DATA

Television Picture Tube
24" Direct Viewed
Rectangular Glass Type
Spherical Faceplate
Gray Filter Glass
Magnetic Deflection
Electrostatic Focus
Single Field Ion Trap
External Conductive Coating
Aluminized Screen





SYLVANIA ELECTRIC PRODUCTS INC.

TELEVISION PICTURE TUBE DIVISION

SENECA FALLS, NEW YORK

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1.5 Megohms Max.

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## SYLVANIA

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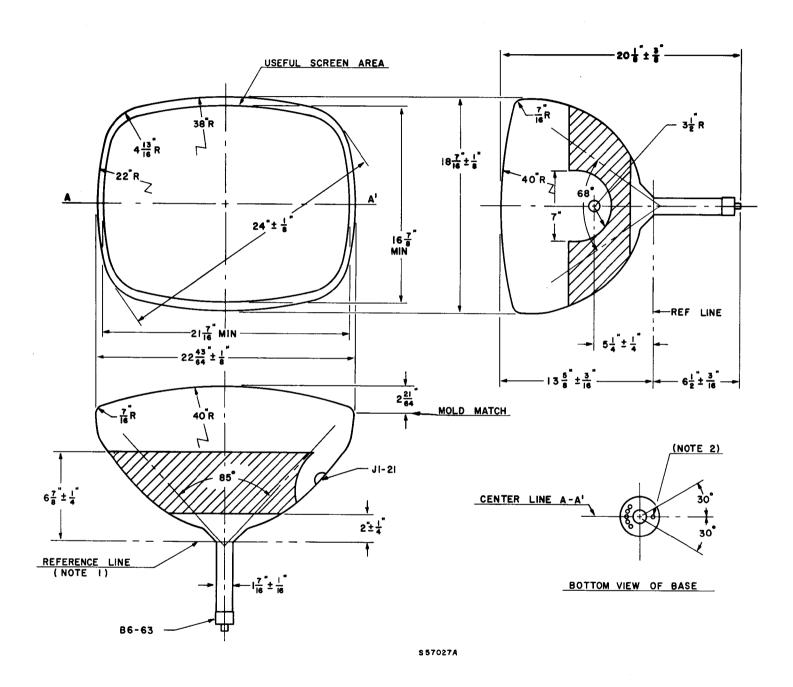
#### **NOTES:**

- 1. Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of its rated value after applying four (4) times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three (3) times rated heater voltage divided by rated heater current.
- 2. External conductive coating must be grounded.
- 3. Visual extinction of focused raster. Extinction of stationary focused spot will require that these values be about 5 volts more negative.
- 4. For JETEC Ion Trap Magnet No. 117 with pole pieces centered over Grid No. 2 on mount and rotated for maximum brightness.
- 5. For typical PM ion trap magnet with field strength tolerance of  $\pm 3$  gausses.

#### **WARNING:**

X-ray radiation shielding may be necessary to protect against possible danger of personal injury from prolonged exposure at close range if this tube is operated at higher than the manufacturer's Maximum Rated Anode Voltage or 16,000 volts, whichever is less.

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### **DIAGRAM NOTES:**

- 1. Reference line is determined by the plane C-C' of the reference line gauge (JETEC No. 116) when the gauge is resting on the glass cone.
- 2. Pin No. 6 aligns with horizontal centerline of tube within 30° and is on same side as anode contact.

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