

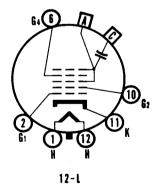
# engineering data service

CHARACTERISTICS		
GENERAL DATA		
Focusing Method Electrostatic Deflection Method Magnetic Deflection Angles (approx.) Horizontal		
Phosphor  14RP4		
ELECTRICAL DATA		
Heater Voltage	May	
External Conductive Coating to Anode 800 μμf	Min.	
Ion Trap Magnet External, Single Field Type		
MECHANICAL DATA		
Minimum Useful Screen Dimensions (Maximum Assured)	es	
RATINGS		
MAXIMUM RATINGS (Absolute Maximum Values)		
Anode Voltage	dc	
(Focusing Electrode)	dc dc	
Negative Bias Value	dc dc	
Heater Negative with Respect to Cathode 200 Volts Heater Positive with Respect to Cathode 200 Volts		
TYPICAL OPERATING CONDITIONS		
Anode Voltage	dc dc dc dc dc Min.	

# QUICK REFERENCE DATA

Television Picture Tube 14" Direct Viewed Rectangular Glass Type Spherical Faceplate Gray Filter Glass Magnetic Deflection Electrostatic Focus Single Field Ion Trap **External Conductive Coating** 14RP4A has Aluminized Screen





# SYLVANIA ELECTRIC PRODUCTS INC.

TELEVISION PICTURE TUBE **DIVISION** 

SENECA FALLS, NEW YORK

Prepared and Released By The TECHNICAL PUBLICATIONS SECTION EMPORIUM, PENNSYLVANIA

> JUNE, 1957 PAGE 1 OF 3

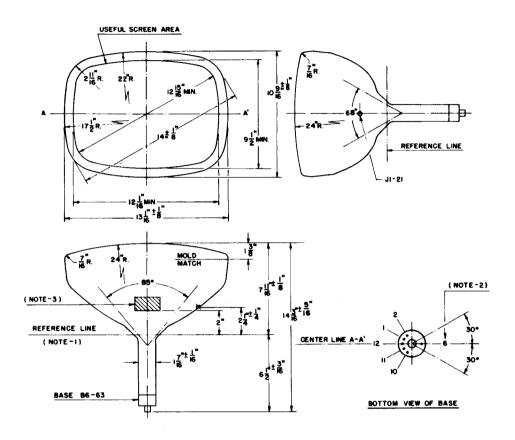


## CIRCUIT VALUES

## NOTES:

- 1. Heater warm-up time is the time required for the voltage across the heater terminals to increase to 5.0 volts in the JETEC test circuit, with E=25 volts and series R=31.5 ohms.
- 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 tolerence of  $\pm 3$  gausses.

PAGE 3



## **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. Base pin No. 6 aligns with anode contact terminal J1-21 within 30 degrees.
- 3. Contact area 2" x 2" for external conductive coating, located 90 degrees counterclockwise from anode contact as viewed from base end of tube.

# **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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