

# engineering data service

200 Volts

200 Volts

SYLVANIA 17ATP4A /17AVP4A

#### CHARACTERISTICS

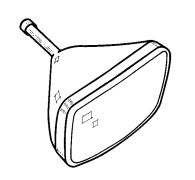
CHARACTERISTICS											
GENERAL DATA											
Focusing Method Electrostatic  Deflection Method											
Horizontal											
Î7ATP4/17AVP4											
ELECTRICAL DATA											
Heater Voltage 6.3 Volts Heater Current											
Cathode to All Other Electrodes 5 μμf Grid No. 1 to All Other Electrodes 6 μμf External Conductive Coating to Anode	Max. Min.										
Ion Trap Magnet External, Single Field Type	141111.										
MECHANICAL DATA											
Minimum Useful Screen Dimensions	es										
RATINGS											
MAXIMUM RATINGS (Absolute Maximum Values)											
Anode Voltage	dc										
(Focusing Electrode)550 to +1100 Volts Grid No. 2 Voltage 550 Volts Grid No. 1 Voltage	dc										
Negative Bias Value	dc										
Positive Bias Value	đc										
Heater Negative with Respect to Cathode During Warm-up Period Not to Exceed 15 Seconds 450 Volts											

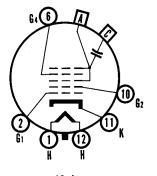
After Equipment Warm-up Period . . . . . .

Heater Positive with Respect to Cathode

### QUICK REFERENCE DATA

Television Picture Tube 17" Direct Viewed Rectangular Glass Type Spherical Faceplate Gray Filter Glass Magnetic Deflection Electrostatic Focus Single Field Ion Trap **External Conductive Coating** 17ATP4A/17AVP4A has Aluminized Screen





12-L

#### SYLVANIA ELECTRIC PRODUCTS INC.

TELEVISION PICTURE TUBE DIVISION

SENECA FALLS, NEW YORK

Prepared and Released By The TECHNICAL PUBLICATIONS SECTION EMPORIUM, PENNSYLVANIA

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### SYLVANIA 17ATP4/17AVP4 17ATP4A/17AVP4A

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#### TYPICAL OPERATING CONDITIONS

Anode Voltage							14,00	00 Volts	dc
Grid No. 4 Voltage							-56  to  +31	lO Volts	dc
Grid No. 2 Voltage							30	00 Volts	dc
Grid No. 1 Voltage Required for Cutoff <sup>8</sup>							28 to -	72 Volts	dc
Ion Trap Magnet Current (Average)4 .	٠	٠						28 Ma	dc
Field Strength of PM Ion Trap Magnet <sup>5</sup>					•	•		31 Gausses	Min.

#### **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 tolerance of  $\pm$  3 gausses.

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15를 ± 을 (NOTE 2)  $12\frac{9}{32} \pm \frac{1}{8}$ II & MIN 2,66" R 15 3" ± 1" 내는" MOLD MATCH 27 7"R PIN 6 POSITION (NOTE 3) JI-21 CENTER LINE A-A NOTE 4 i R REFERENCE LINE BOTTOM VIEW OF BASE \$55002 E

#### **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. The neck diameter near the cone may exceed 1.500" but is limited by the internal contour of the yoke reference line gauge.
- 2. Useful screen area.
- 3. Anode contact aligns with pin No. 6  $\pm$  30 degrees.

## 17ATP4A/17AVP4A

The Sylvania Type 17ATP4A/17AVP4A is identical to the Type 17ATP4/17AVP4 except it has an aluminized screen.

#### **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.