

CHARACTERISTICS

GENERAL DATA

Focusing Method	Electrostatic
Deflecting Method	Electrostatic
Phosphor	P1
Fluorescence	Green
Persistence	Medium
Faceplate	Clear

ELECTRICAL DATA

Heater Voltage	6.3 Volts
Heater Current (approx.)	0.6 ± 10% Ampere
Direct Interelectrode Capacitances (approx.)	
Cathode to All Other Electrodes	8 μμf
Grid No. 1 to All Other Electrodes	8 μμf
Between Deflecting Plates 1-2 ¹	2.5 μμf
Between Deflecting Plates 3-4 ¹	2 μμf
Deflecting Plate 1 ¹ to All Other Electrodes	8 μμf
Deflecting Plate 2 ¹ to All Other Electrodes	7 μμf
Deflecting Plate 3 ¹ to All Other Electrodes	7 μμf
Deflecting Plate 4 ¹ to All Other Electrodes	8 μμf

MECHANICAL DATA

Minimum Useful Screen Diameter	2 ³ / ₄ Inches
Bulb Contact (Recessed Small Ball Cap)	J1-22
Base (Medium Shell Diheptal 12-Pin)	B12-37
Basing	14J

RATINGS

MAXIMUM RATINGS (Absolute Maximum Values)

Anode No. 3 Voltage	4,400 Volts dc
Anode No. 2 Voltage	2,200 Volts dc
Anode No. 1 Voltage	1,100 Volts dc
Grid No. 1 Voltage	
Negative Bias Value	220 Volts dc
Positive Bias Value	0 Volts dc
Positive Peak Value	2 Volts
Peak Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	140 Volts
Heater Positive with Respect to Cathode	140 Volts
Peak Voltage Between Anode No. 2	
And Any Deflecting Plate	550 Volts

TYPICAL OPERATING CONDITIONS

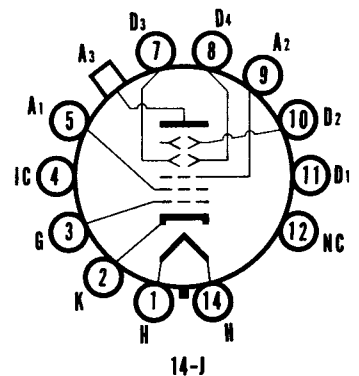
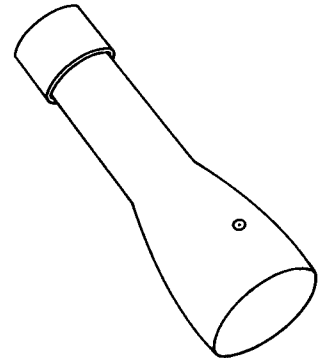
Anode No. 3 Voltage ²	3,000 Volts dc
Anode No. 2 Voltage ³	1,500 Volts dc
Anode No. 1 Voltage	300 to 515 Volts dc
Grid No. 1 Voltage Required for Cutoff ⁴	-22.5 to 67.5 Volts dc
Deflection Factor ^{5, 6}	
Deflecting Plates 1-2 ⁷	127-173 Volts dc/Inch
Deflecting Plates 3-4 ⁸	94-128 Volts dc/Inch

CIRCUIT VALUES

Grid No. 1 Circuit Resistance	1.5 Megohms Max.
Deflection Circuit Resistance	5.0 Megohms Max.

QUICK REFERENCE DATA

Special Purpose Tube
 3" Direct Viewed
 Round Glass Type
 Electrostatic Deflection
 Electrostatic Focus
 Post Deflection Accelerator

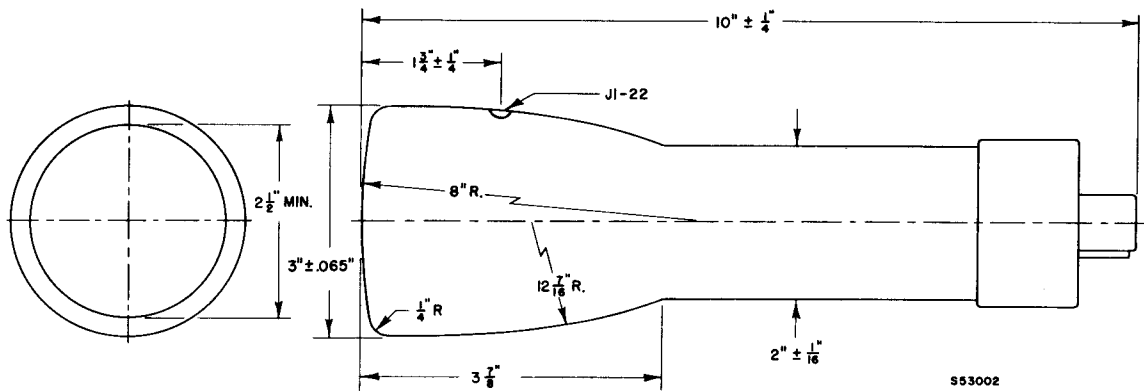


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SENECA FALLS, NEW YORK

Prepared and Released By The
TECHNICAL PUBLICATIONS SECTION
EMPORIUM, PENNSYLVANIA

NOTES:

1. Positive voltage on Pin No. 1 will deflect spot approximately toward Pin No. 5.
Positive voltage on Pin No. 7 will deflect spot approximately toward Pin No. 2.
2. Anode No. 3 voltage should not be less than 3,000 volts for high speed scanning.
3. Recommended minimum value of Anode No. 2 Voltage.
4. Visual extinction of undeflected focused spot.
5. The plane through the tube axis and each of the following items may vary from the trace produced by Deflecting Plates 1-2 by the following angular tolerances measured about the tube axis; Pin 5 10 degrees; cap (on same side of tube as Pin 5) 10 degrees.
6. Angle between D1-D2 trace and D3-D4 trace is $90^\circ \pm 3^\circ$.
7. Deflecting Plates 1-2 are nearer the screen.
8. Deflecting Plates 3-4 are nearer the base.



3JP7

The Type 3JP7 is identical to the Type 3JP1 except it has a phosphor of blue-white fluorescence, yellow phosphorescence, and long persistence.

3JP12

The Type 3JP12 is identical to the Type 3JP1 except it has an orange phosphor of Medium Long persistence.