

CIRCUIT VALUES

Grid No. 1 Circuit Resistance .

engineering data service

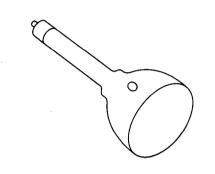
SYLVANIA 7BP2A 7BP-A*

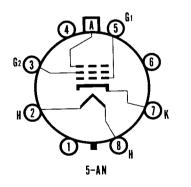
CHARACTERISTICS

Deflection Method	Magnetic Magnetic	
Deflection Angle (Approx.)	. 53 7 BP7A	Degrees
Fluorescence Green	Blue	
	Yellow Long Clear	
*In addition to the types shown, the 7BP-A can be supple several other screen phosphors.		•
LECTRICAL DATA		
Heater Voltage		Volts Ampere
Direct Interelectrode Capacitances (Approx.) Cathode to All Other Electrodes	. 5	$\mu\mu f$
Grid No. 1 to All Other Electrodes	. 8.5	$\mu\mu f$
Grid No. 2 to All Other Electrodes	. 7	$\mu\mu$ f
MECHANICAL DATA		
Minimum Useful Screen Diameter	juivalent J1-22 B8-65 B5-80	Inches
Basing	. 3	Pounds
RATINGS		
RATINGS MAXIMUM RATINGS		
MAXIMUM RATINGS Anode Voltage		Volts
MAXIMUM RATINGS Anode Voltage	. 8,800 . 770	
MAXIMUM RATINGS Anode Voltage	. 770 . 200	Volts Volts
Anode Voltage	. 770 . 200 . 0	Volts Volts Volts
Anode Voltage Grid No. 2 Voltage Grid No. 1 Voltage Negative Bias Value Positive Peak Value Positive Peak Value	. 770 . 200 . 0	Volts Volts
Anode Voltage	. 770 . 200 . 0 . 2	Volts Volts Volts
Anode Voltage Grid No. 2 Voltage Grid No. 1 Voltage Negative Bias Value Positive Bias Value Positive Peak Value Peak Heater-Cathode Voltage Heater Negative with Respect to Cathode	. 770 . 200 . 0 . 2	Volts Volts Volts Volts Volts
Anode Voltage Grid No. 2 Voltage Grid No. 1 Voltage Negative Bias Value Positive Bias Value Positive Peak Value Peak Heater-Cathode Voltage Heater Negative with Respect to Cathode Heater Positive with Respect to Cathode	. 770 . 200 . 0 . 2 . 140 . 140	Volts Volts Volts Volts Volts Volts
Anode Voltage Grid No. 2 Voltage Grid No. 1 Voltage Negative Bias Value Positive Bias Value Positive Peak Value Peak Heater-Cathode Voltage Heater Negative with Respect to Cathode Heater Positive with Respect to Cathode Grid No. 2 Voltage 4000 Grid No. 2 Voltage 250	. 770 . 200 . 0 . 2 . 140 . 140	Volts Volts Volts Volts Volts Volts Volts Volts
Anode Voltage Grid No. 2 Voltage Grid No. 1 Voltage Negative Bias Value Positive Bias Value Positive Peak Value Peak Heater-Cathode Voltage Heater Negative with Respect to Cathode Heater Positive with Respect to Cathode Grid No. 2 Voltage Grid No. 1 Voltage for Cutoff³25 to -70	. 770 . 200 . 0 . 2 . 140 . 140	Volts

QUICK REFERENCE DATA

Radar Indicator
7" Direct Viewed
Round Glass Type
Magnetic Deflection
Magnetic Focus





SYLVANIA ELECTRONIC TUBES

A Division of SYLVANIA ELECTRIC PRODUCTS, Inc.

PICTURE TUBE
OPERATIONS
SENECA FALLS, NEW YORK

Prepayed and Released By The
TECHNICAL PUBLICATIONS SECTION

1.5 Megohms Max.

EMPORIUM, PENNSYLVANIA
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NOTES:

- 1. At or near this rating, the effective resistance of the anode supply should be adequate to limit the anode input power to 6 watts.
- 2. Brilliance and definition decrease with decreasing anode voltage. In general, anode voltage should not be less than 4,000 volts.
- 3. Visual extinction of undeflected focused spot.
- 4. For JETEC Focusing Coil No. 106, or equivalent, with center line of air gap approximately 2³/₄ inches from reference line (See Outline Drawing) and total anode current of 200 microamperes.
- 5. The center of the undeflected, unfocused spot will fall within a circle having 12 mm radius concentric with the center of the tube face.

7BP7

Sylvania Type 7BP7A replaces Type 7BP7.

WARNING:

X-ray radiation shielding may be necessary to protect against 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.

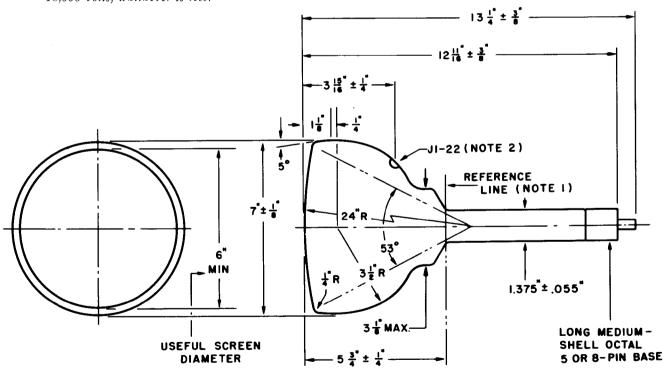


DIAGRAM NOTES:

- 1. Reference line is determined by position where gauge 1.430 + .003 inch I.D. and 2 inches long will seat against the bulb cone.
- 2. The plane through the tube axis and Pin No. 5 may vary from the plane through the tube axis and anode terminal by an angular tolerance (measured about the tube axis) of 10 degrees. Anode terminal is on same side of the tube as Pin No. 5