

engineering data service

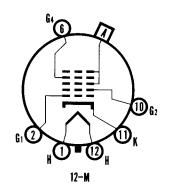
CHARACTERISTICS

GENERAL DATA										
Focusing Method Deflection Method Deflection Angle (approx.) .	. S	elf	Foc	usin	g (E	Ele	ctro Ma	static) agnetic	.	
Phosphor	 					В	lue	. P7 -White	Degrees	
Phosphorescence								Yellow		
ELECTRICAL DATA	•	٠		•	•	•	•	Cicai		
					•			6.3	Volts	
Heater Voltage Heater Current Direct Interelectrode Capacitand Cathode to All Other Elect	 ces (a	ppr	ox.)		•	0.6	±10%	Ampere μμf	
Grid No. 1 to All Other Elect.	ectro	des	•			•		6		
MECHANICAL DATA										
Minimum Useful Screen Diamet Bulb Contact (Recessed Small C	er . avity	Ca	.p)					6 J1-21	Inches	
Base (Small Shell Duodecal 6-Pi Basing	n).							B6-63		
build Contact Anglis with Fill Is	NO. 3	•	•	•	•	•	٠	<u> </u>	Degrees	
MAXIMUM RATINGS (Abso								-		
Anode Voltage Grid No. 4 (Focusing Electrode		•		•	٠			11,000	Volts	dc
Voltage				•			to	770	Volts	dc dc
Negative Bias Value Positive Bias Value ¹								0	Volts Volts	dc dc
Positive Peak Value Peak Heater-Cathode Voltage								0	Volts	
II NI II D		_	.1	1.						
Heater Negative with Respondence Heater Positive with Respondence	ect to	Cai	tho thoc	de le .				200		
Heater Negative with Responsible Heater Positive with Responsible	ct to	Cai	thoc	le .				200	Volts	
Heater Negative with Response Heater Positive with Response TYPICAL OPERATING CON	ct to	Cai	thoc ON:	le .				200 200	Volts Volts	dc
Heater Negative with Response Heater Positive with Response TYPICAL OPERATING CON Anode Voltage ²	VDI	Ca1 ΓΙ()N:	S				200 200 7000 to 250	Volts Volts	dc dc
Heater Negative with Response Heater Positive with Response TYPICAL OPERATING CON	VDI	Ca1 ΓΙ()N:	S				200 200 7000 to 250	Volts Volts	dc
Heater Negative with Response Heater Positive with Response TYPICAL OPERATING CON Anode Voltage ²	VDI	Ca1 ΓΙ()N:	S				200 200 7000 to 250	Volts Volts	dc dc

QUICK REFERENCE DATA

Special Purpose Tube 7" Direct Viewed Round Glass Type Electrostatic Focus Magnetic Deflection High Resolution





SYLVANIA ELECTRIC PRODUCTS INC.

TELEVISION PICTURE TUBE **DIVISION**

SENECA FALLS, NEW YORK

Prepared and Released By The TECHNICAL PUBLICATIONS SECTION EMPORIUM, PENNSYLVANIA JULY, 1957

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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. The screen of the 7ABP19 can be permanently damaged should the current density be permitted to rise too high. To prevent burning, minimum beam current densities should be employed.
- 2. Brilliance and definition decrease with decreasing anode voltage. In general, anode voltage should not be less than 5,000 volts, except for the 7 ABP19. For this type the anode voltage should not be less than 7,000 volts.
- 3. With Eg1 adjusted for $Ib = 100 \mu a$ and beam focused for minimum width of individual lines at center of screen.
- 4. Visual extinction of undeflected focused spot.

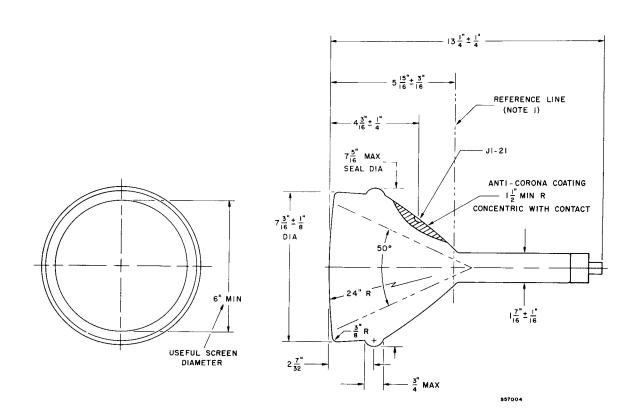


DIAGRAM NOTES:

1. Reference line is determined by the point where $1.500 \stackrel{+}{-}.000$ inch diameter ring gauge 2 inches long will stop.

7ABP7A

The Sylvania Type 7ABP7A is identical to the Type 7ABP7 except that it has an aluminized screen.

7ABP14

The Sylvania Type 7ABP14 is identical to the Type 7ABP7 except that it has a purple fluorescence, orange phosphorescence and medium long persistence phosphor.

7ABP14A

The Sylvania Type 7ABP14A is identical to the Type 7ABP14 except that it has an aluminized screen.

7ABP19

The Sylvania Type 7ABP19 is identical to the Type 7ABP7 except that it has an orange fluorescence and long persistence.

7ABP19A

The Sylvania Type 7ABP19A is identical to the Type 7ABP19 except that 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.