

CHARACTERISTICS

GENERAL DATA

Focusing Method	Electrostatic
Deflection Method	Magnetic
Deflection Angles (Approx.)	
Horizontal	101 Degrees
Diagonal	114 Degrees
Vertical	86 Degrees
Phosphor	Aluminized P4
Fluorescence	White
Persistence	Medium Short
Faceplate	Gray Filter Glass
Light Transmittance (Approx.)	78 Percent

ELECTRICAL DATA

Heater Voltage	6.3 Volts	
Heater Current	$0.60 \pm 5\%$ Ampere	
Heater Warm-up Time ¹	11 Seconds	
Direct Interelectrode Capacitances (Approx.)		
Cathode to All Other Electrodes	5 pf	
Grid No. 1 to All Other Electrodes	6 pf	
External Conductive Coating to Anode ²	1900 pf	Max.
	1400 pf	Min.

MECHANICAL DATA

Minimum Useful Screen Dimensions (Maximum Assured)		
Height	12 Inches	
Width	$15\frac{1}{8}$ Inches	
Diagonal	$17\frac{9}{16}$ Inches	
Area	172 Sq. Inches	
Neck Length	$4\frac{3}{8} \pm \frac{1}{8}$ Inches	
Overall Length	$11\frac{5}{8} \pm \frac{1}{4}$ Inches	
Bulb	J149A	
Bulb Contact (Recessed Small Cavity Cap)	J1-21	
Base	B6-214	
Basing	7FA	
Weight (Approx.)	14 Pounds	

RATINGS

MAXIMUM RATINGS (Design Maximum Values)

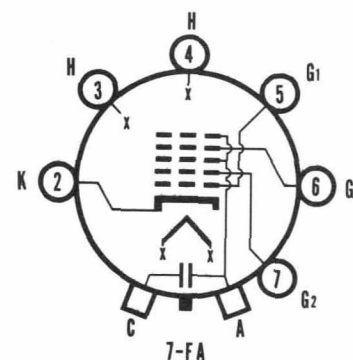
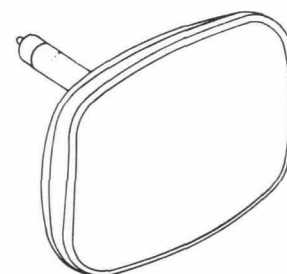
Cathode Drive Service ³		
Maximum Anode Voltage	20,000 Volts	dc
Minimum Anode Voltage	12,000 Volts	dc
Grid No. 4 Voltage (Focusing Electrode)	-500 to +1100 Volts	dc
Grid No. 2 Voltage	55 Volts	dc
Cathode Voltage		
Negative Bias Value	0 Volt	dc
Negative Peak Value	2 Volts	
Positive Bias Value	100 Volts	dc
Positive Peak Value	140 Volts	
Peak Heater-Cathode Voltage		
Heater Negative with Respect to Cathode During Warm-up Period Not to Exceed 15 Seconds	410 Volts	
After Equipment Warm-up Period	180 Volts	
Heater Positive with Respect to Cathode	180 Volts	

TYPICAL OPERATING CONDITIONS

Cathode Drive Service ³		
Anode Voltage	16,000 Volts	dc
Grid No. 4 Voltage for Focus	0 to +400 Volts	dc
Grid No. 2 Voltage ³	45 Volts	dc
Cathode Voltage Required for Cutoff ⁴	35 to 50 Volts	dc

QUICK REFERENCE DATA

Television Picture Tube
 19" Direct Viewed
 Rectangular Glass Type
 Gray Filter Glass
 Aluminized Screen
 Neck Length $4\frac{3}{8}$ "
 Electrostatic Focus
 114° Magnetic Deflection
 No Ion Trap
 External Conductive Coating
 6.3 Volts, 600 ma Heater
 Low Grid No. 2 Voltage



SYLVANIA ELECTRONIC TUBES

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