SYLVANIA

engineering data service

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5DLP4

CHARACTERISTICS

GENERAL DATA

Focusing Method	Electrostatic
Deflection Method	Magnetic
Deflection Angle (Approx.)	53 Degrees
Phosphor	Aluminized P4
Fluorescence	White
Persistence	Medium Short
Faceplate	Spherical, Clear

ELECTRICAL DATA

Heater Voltage	6.3 Volts	
Heater Current	0.60 ± 5 % Ampere	
Heater Warm-up Time[1]	11 Seconds	
Direct Interelectrode Capacitances (Approx.)		
Cathode to All Other Electrodes	5 μμf	
Grid No. 1 to All Other Electrodes	6 μμf	
External Conductive Coating to Anode[2]	400 μμf	Max.
	200 μμf	Min.

MECHANICAL DATA

Minimum Useful Screen Diameter (Maximum Assured)	4 ¼ Inches
Area	16 Sq. Inches
Neck Length	5⅝ Nom. Inches
Overall Length	8⅞ + ⅛ − 7/16 Inches
Bulb	J39 ½P
Bulb Contact (Recessed Small Cavity Cap)	J1-21
Base	B7-183 or B7-208
Basing	8LV
Weight (Approx.)	1 ¼ Pounds

RATINGS

MAXIMUM RATINGS (Design Maximum Values) Grid Drive Service

Maximum Anode Voltage	12,000 Volts	dc
Minimum Anode Voltage	8000 Volts	dc
Grid No. 4 Voltage (Focusing Electrode)	−550 to +1100 Volts	dc
Grid No. 2 Voltage	550 Volts	dc
Grid No. 1 Voltage		
Negative Bias Value	155 Volts	dc
Negative Peak Value	220 Volts	
Positive Bias Value	0 Volts	dc
Positive Peak Value	2 Volts	
Peak Heater-Cathode Voltage		
Heater Negative with Respect to Cathode		
During Warm-up Period not to Exceed 15 Seconds	450 Volts	
After Equipment Warm-up Period	200 Volts	
Heater Positive with Respect to Cathode	200 Volts	

TYPICAL OPERATING CONDITIONS, Grid Drive Service

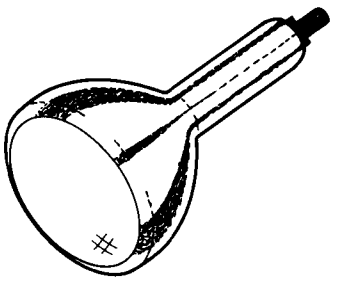
Anode Voltage	10,000 Volts	dc
Grid No. 4 Voltage for Focus	0 to +400 Volts	dc
Grid No. 2 Voltage	300 Volts	dc
Grid No. 1 Voltage Required for Cutoff[3]	−35 to −72 Volts	dc

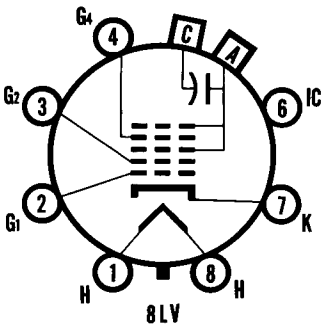
CIRCUIT VALUES

Grid No. 1 Circuit Resistance	1.5 Megohms	Max.

QUICK REFERENCE DATA

Monitor Tube
5" Direct Viewed
Round Glass Type
Clear Glass Face
Aluminized Screen
Electrostatic Focus
53° Magnetic Deflection
No Ion Trap
External Conductive Coating





SYLVANIA
ELECTRONIC TUBES

A Division of
Sylvania Electric Products Inc.

PICTURE TUBE
OPERATIONS

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SPECIAL AND GENERAL
PURPOSE CATHODE RAY TUBES

NOTES:

1. *Heater warm-up time is defined as the time required for the voltage across the heater to reach 80 % of the rated heater voltage after applying four (4) times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three (3) times the rated heater voltage divided by the rated heater current.*
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.*

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.

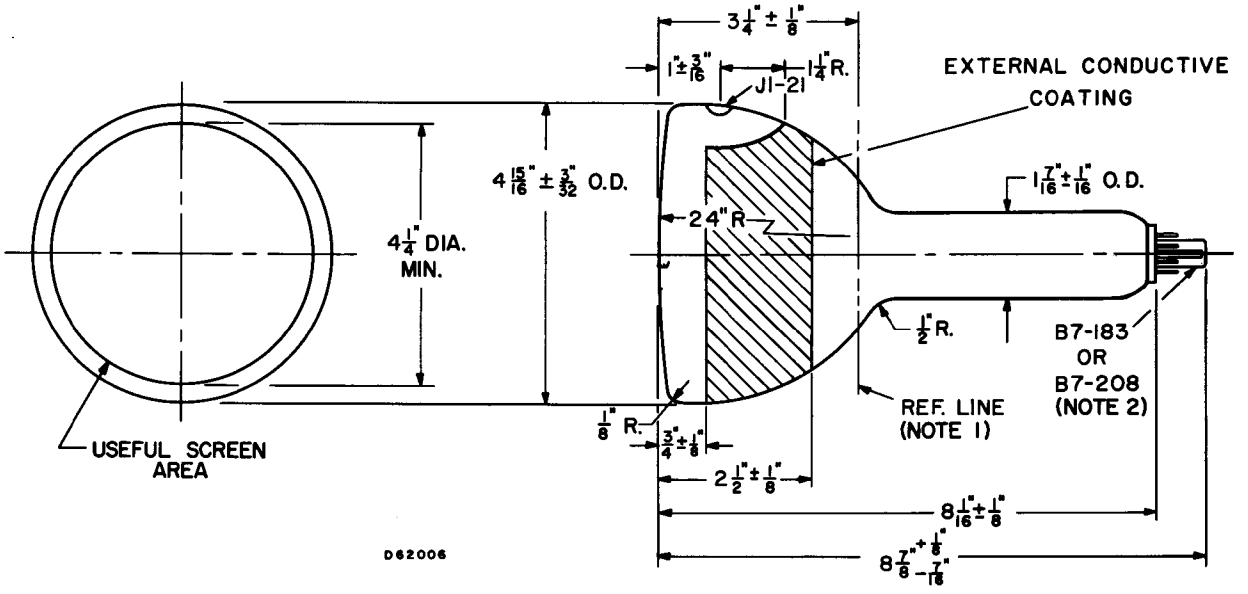

DIAGRAM NOTES:

1. *Reference line is determined by plane C-C¹ JEDEC Gauge No. 116 when gauge is seated against cone of bulb.*
2. *Pin No. 4 aligns with anode contact (J1-21) within 30°.*