

engineering data service 23AHP4

 $5 \mu \mu f$ $6 \mu \mu f$

Max.

Min.

2500 μμf

1700 μμf

CHARACTERISTICS

GENERAL DATA Focusing Method . Deflection Method . . . Deflection Angles (Approx.) Horizontal 80 Degrees Phosphor Fluorescence White Persistence Short to Medium ELECTRICAL DATA Heater Voltage 6.3 Volts

MECHANICAL DATA

Direct Interelectrode Capacitances (Approx.)

External Conductive Coating to Anode²

Minimum Useful Screen Dimensions (Maximum Assured)																	
Height .																$15\frac{1}{8}$	Inches
Width .																191/4	Inches
Diagonal																22 5/16	Inches
Area .																278	Sq. Inches
Neck Length															$5\frac{1}{2}$	$\pm 3/16$	Inches
Overall Length																$18 \pm \frac{3}{8}$	Inches
Bulb						•										J187C	
Bulb Contact (Re	eces	sed	Sr	nal	l C	avi	ty	Cap	9)						J1-21	
Base																	
Basing																	
Weight (Appr	ox.	.)														27	Pounds

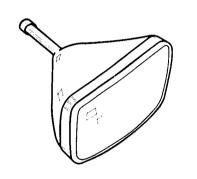
RATINGS

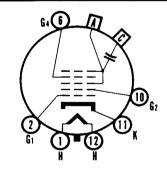
MAXIMUM RATINGS (Design Maximum Values) Grid Drive Service

Maximum Anode Voltage											22,000	Volts	dc
Minimum Anode Voltage													dc
Grid No. 4 Voltage (Focus													dc
Grid No. 2 Voltage													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	
Maximum Heater Voltage											6.9	Volts	
Minimum Heater Voltage											5.7	Volts	
Peak Heater-Cathode Volta													
Heater Negative with	Res	spe	ct	to (Catl	hod	le I	Dur	ing	3			
Warm-up Period	not	t to	E	xce	ed	15	Sec	one	ds`		450	Volts	
After Equipment											200	Volts	
Heater Positive with R											200	Volts	

QUICK REFERENCE DATA

Television Picture Tube 23" Direct Viewed Rectangular Glass Type Spherical Faceplate Grav Filter Glass Aluminized Screen **Electrostatic Focus** 92° Magnetic Deflection No Ion Trap **External Conductive Coating**





12-L

SYLVANIA ELECTRONIC TUBES

A Division of Sylvania Electric Products Inc.

PICTURE TUBE OPERATIONS SENECA FALLS, NEW YORK

Prepared and Released By The TECHNICAL PUBLICATIONS SECTION EMPORIUM, PENNSYLVANIA

MAY, 1961

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File Under TELEVISION PICTURE TUBES



TYPICAL OPERATION CONDITIONS (Grid Drive Service)

Anode Voltage										16,000 Volts	dc
Grid No. 4 Voltage for Focus											
Grid No. 2 Voltage											
Grid No. 1 Voltage Required for Cutoff ⁵	١.		٠.							-35 to -72 Volts	dc
0 1											

CIRCUIT VALUES

Grid No. 1 Circuit Resistance					•		٠		•		•		•	•	•					•	1.5 Megohms Max.
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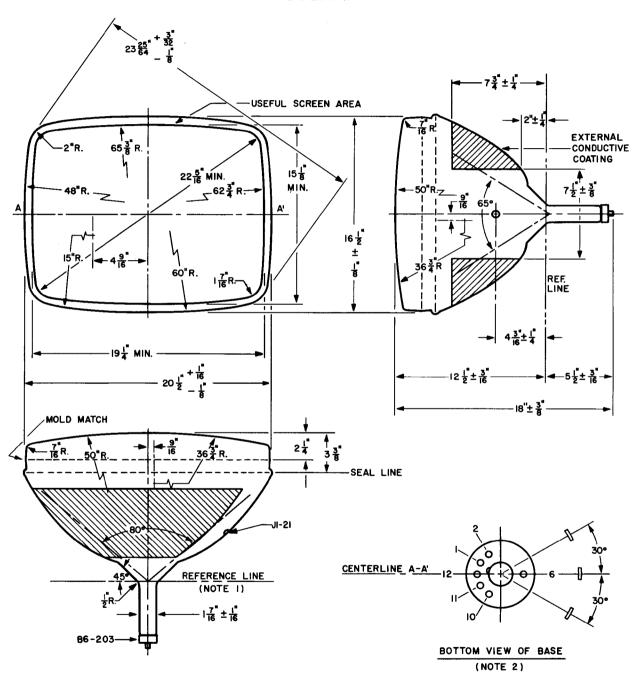
NOTES:

- 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.

OUTLINE



D60032A

DIAGRAM NOTES:

- 1. Reference line is determined by plane C-C' of JEDEC No. 116 Reference Line Gauge, when the gauge is seated against the bulb.
- 2. Base Pin No. 6 aligns with horizontal centerline (A-A') within 30° and is on same side as anode contact, J1-21.