

engineering data service

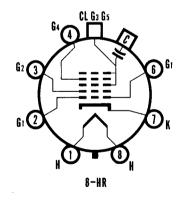
CHARACTERISTICS

	CF	iAK	AC	I E	KI	11	CS						
GENERAL DATA										P1			
Focusing Method												•	
Deflection Method			•	•	•	•	•	•	•	. M	agnetic		
Deflection Angles		-											
Horizontal													
Diagonal .		•		•		•		•			110	Degrees	
Vertical .												Degrees	
Phosphor						•			Αlι	umini	zed P4		
Fluorescence											White		
Persistence								S	hort	to N	1e dium		
Faceplate								C	Gray	Filter	r Glass		
Light Transm	ittance	(ap	prox	r.)							76	Percent	
ELECTRICAL DAT	Γ A												
Heater Voltage								•			6.3	Volts	
Heater Current										0.45	± 5%	Ampere	
Heater Warm-up '	Time1										11	Seconds	
Direct Interelectro	de Cap	acita	nces	(a)	ppro	ox.)							
Cathode to Al	ll Othe	r Ele	ctro	des							5	$\mu\mu f$	
Grid No. 1 to	All C	Other	Ele	ctro	des							$\mu\mu$ f	
· External Cond													Max
											1700	• •	Mir
Width Diagonal .											-	Inches Inches	
Area												Sq. Incl	100
Bulb													100
Bulb Contact (Rec									-	•	-		
Base				•	_	,					B7-183		
Basing											8HR		
Weight (approx.)												Pounds	
weight (approx.)			TI			•	•	•	•		2072	1 Ourids	
AXIMUM RATINGS	(Abs					ım	Val	ue	es)				
Anode Voltage	•								•	2,000	Volts	dc	
Grid No. 4 Voltage (Foc												dc	
Grid No. 2 Voltage .	_										Volts	dc	
Grid No. 1 Voltage	• •	•	•	•	•	•	•	•	•	,,,,	7 0103	ac	
Negative Bias Value										154	Volts	dc	
Negative Peak Value							•	•	•		Volts	de	
Positive Bias Value							•	•	•		Volts	dc	
Positive Peak Value									•		Volts	dc	
		•	•	•	•	•	•	•	•	2	VOILS		
Peak Heater-Cathode Vol	_	act t-	Cat	·ho-l	ما							A.	
Heater Negative with	_					J 14	. C.		de	450	Valua		
During Warm-u	-										Volts		
After Equipmen		-									Volts		
Heater Positive with	кеѕре	ct to	Cat.	nod	e	•	•	•	٠	200	Volts		

QUICK REFERENCE DATA

Television Picture Tube 24" Direct Viewed Rectangular Glass Type Lightweight Tube Spherical Faceplate Gray Filter Glass Aluminized Screen Electrostatic Focus 110° Magnetic Deflection 11/8" Neck Diameter No Ion Trap External Conductive Coating 6.3 Volt, 450 Ma. Heater





SYLVANIA ELECTRIC PRODUCTS INC.

TELEVISION PICTURE TUBE **DIVISION** SENECA FALLS, NEW YORK

Prepared and Released By The TECHNICAL PUBLICATIONS SECTION EMPORIUM, PENNSYLVANIA

> SEPTEMBER, 1958 PAGE 1 OF 3

24AQP4

PAGE 2

TYPICAL OPERATING CONDITIONS

Anode Voltage			. 16,000	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.

NOTES:

- 1. Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of its rated value 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 rated heater voltage divided by 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.

PAGE 3

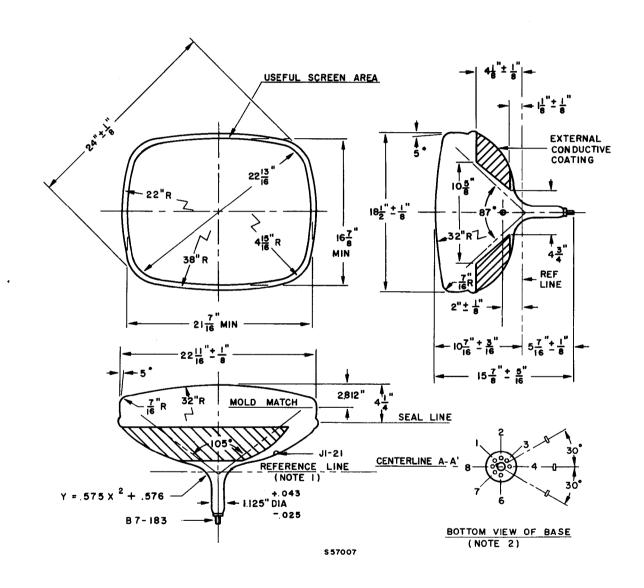


DIAGRAM NOTES:

- 1. Reference line is determined by plane C-C' of JETEC No. 126 Reference Line Gauge, when the gauge is seated against the bulb.
- 2. Base pin No. 4 aligns with horizontal centerline within 30°, and is on same side as anode contact (J1-21).

A Technical Publication of SYLVANIA ELECTRIC PRODUCTS INC. EMPORIUM, PA.

