24AWP4

National Video Corporation

4300 W. 47TH STREET CHICAGO 32, ILLINO(S

The type 2hAWPh is a low voltage electrostatic focus, magnetic deflection picture tube for television applications. It has a short, non-ion trap type gun in a h 1/2" neck. It also has a rectangular glass bulb with a gray glass faceplate and the screen is aluminized for increased light output.

GENERAL CHARACTERISTICS

Focusing Method Deflection Method	Electrostatic Magnetic	
Deflection Angle (Approx.) Horizontal		Degrees
Diagonal	110	_
Vertical	87	Degrees
Face Plate Light Transmission	•	Ü
(Neutral Density Filter)	74%	Approx.
Phosphor	No. L	
Fluorescence	White	
Persistence	Medium	
Direct Interelectrode Capacitances (Approx.)		
Cathode to all other electrodes	5	บบใ
Grid No. 1 to all other electrodes		uuf
External conductive coating to anode	-	Max. uuf
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	2000	ridite our
MECHANICAL DATA		
Overall Length	11, 7/8 ± 3/8	Inches
Greatest Dimensions of Bulb:	_	
Diagonal		Inches
Width	22 11/16	Inches
Height	18 1/2	Inches
Screen Dimensions:		
Diagonal	22 13/16	Inches
Width	21 7/16	
Height	16 7/8	Inches
Screen Area	332	Sq. Inches
Bulb Contact	Л - 21	_
Bulb No.	Л92С1	
Base	B7-183	
Easing	8HR	
Bulb Contact Alignment		
J1-21 Contact aligns with Pin Position No.	<u>+</u> 30	Degrees

MAXIMUM RATINGS Design Center Values

Heater Voltage Heater Current Anode Voltage Grid No. 4 Voltage Grid No. 2 Voltage Grid No. 1 Voltage	-500 to +1,000	Volts Amperes Max. Volts D.C. Max. Volts D.C. Max. Volts D.C.
Negative Bias Value Positive Bias Value Positive Peak Value	0	Max. Volts D.C. Max. Volts D.C. Max. Volts D.C.
Peak Heater - Cathode Voltage Heater negative with respect to cathod warm-up period not to exceed 15 second: After equipment warm-up Heater positive with respect to cathod	\$ 410 180	Max. Volts D.C. Max. Volts D.C. Max. Volts D.C.

TYPICAL OPERATING CONDITIONS

Anode Voltage ²	16,000	Volts D.C.
Grid No. 4 Voltage3	0 to 400	Volts D.C.
Grid No. 2 Voltage	300	Volts D.C.
Grid No. 1 Voltage4	-28 to -72	Volts D.C.

MAXIMUM CIRCUIT VALUES

Grid No. 1 Circuit Resistance

1.5 Max. Megohms

NOTES

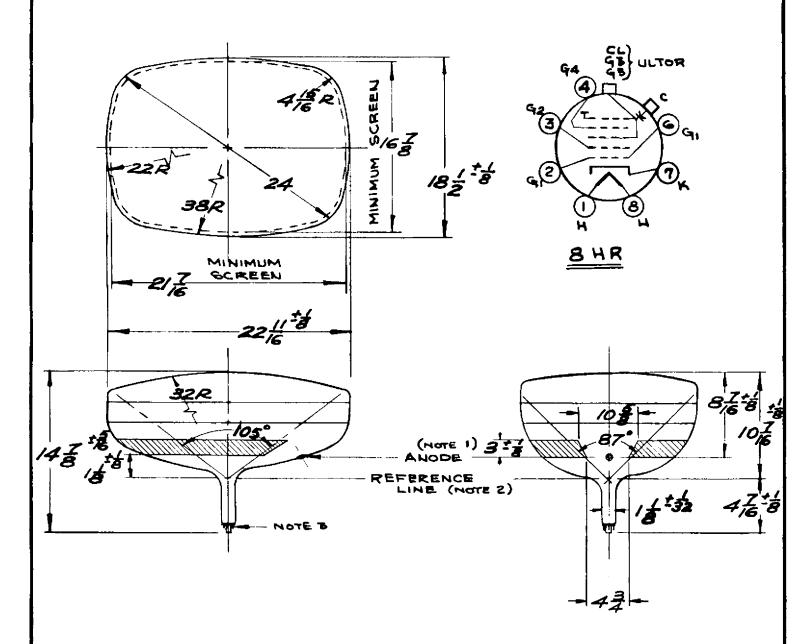
1Grid No. 5, Grid No. 3, and the collector are connected together within the tube, are referred to herein as anode.

 2 This tube will not provide satisfactory performance at anode voltage below 12 KV.

3For focus with anode current of 100 us and 21 7/16° x 16 7/8° raster.

4Visual extinction of focused raster.

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NATIONAL VIDEO CORP. CHICAGO 32. ILL.

SUPERSEDE			AWING Nº
DRAWN BY	SCALE	EFFECTIVE	DISTRIBUTION
R. LARSON	1"= 8"	5-21-58	

NOTES

- NOTE 1: The plane through the tube axis and pin No. 4 may vary from the plane through the tube axis and ultor terminal by angular tolerance (measured about the tube axis) of $\pm 30^{\circ}$. Ultor terminal is on the same side as pin No. 4.
- NOTE 2: With the tube neck inserted through flared end of reference line gauge JETEC No. 126 and with the tube seated in gauge, the reference line is determined by the intersection of the plane CC' of the gauge with the glass funnel.
- NCTE 3: Socket for this base should not be rigidly mounted; it should have flexible leads and be free to move.
- NOTE 4: External conductive coating must be grounded.