Cathode-Ray Tube Type 17CLP4

The 17CLP4 is a short neck 17" 90° rectangular, electrostatic focus and magnetic deflection direct-view picture tube. It has a filter glass faceplate, metal-backed screen, and an external ion trap magnet of the single field type. The tube has a high capacity external conductive coating, which when grounded serves as a filter capacitor, and aids in the suppression of radiation.

GENERAL DATA		
	ctrostatic	
Deflection Method	Magnetic	
Deflection Angles (approx.)	1.05.000	
Horizontal	85	Degrees
Diagonal		Degrees
	minized P4	6
Fluorescence	White	
Persistence	Medium	
	Lter Glass	
Light Transmission (approx.)	74%	
ELECTRICAL DATA		
Heater Voltage	6.3	Volts
Heater Current	0.6 £ 10%	Amperes
Direct Interelectrode Capacitances (approx.)	_	
Cathode to All Other Electrodes	5	uuf
Grid No.1 to All Other Electrodes	6	uuf
External Conductive Coating to Anode	2300	uuf Max.
	1800	uuf Min.
MECHANICAL DATA		
Overall Length 15	<i>5</i> /8 <u>₹</u> 3/8	Inches
Greatest Bulb Dimensions		
Diagonal 16	5/8 £ 1/8	Inches
Width 15	3/8 7 1/8	Inches
Height 12 9	$9/32 \frac{7}{2} 1/8$	Inches
Minimum Useful Screen Dimensions (Max. assured) 11 1/8	$\times 14^{-5/16}$	
Minimum Useful Screen Area		Sq.In.
Bulb Contact - Recessed Small Cavity Cap	J1-21	
Base - Small Shell Duodecal 6-pin	B6-63	
Basing	12L	
Bulb Contact Alignment - J1-21 Contact Aligns with Pin Position No.6 ≠ 30 degrees		
MAXIMUM RATINGS (Absolute Maximum Values)	17 600	Volts dc
Final Anode Voltage ² Grad No. / Voltage (Francisco Floritado) 3		
	to / 1,100	
Grid No.2 Voltage	550	Volts dc
Grid No.1 Voltage	155	Volts dc
Negative Bias Value Negative Peak Value		Volts de
Positive Peak Value		Volts de
Positive Bias Value		Volts
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The Rauland Corporation, Chicago, Illinois

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MAXIMUM RATINGS (Absolute Maximum Values) cont'd

Peak Heater-Cathode Voltage:

Heater Negative with Respect to Cathode

After Warm-up Period Not to Exceed 15 Seconds 450 Volts dc After Equipment Warm-up Period 200 Volts dc 200 volts dc

Heater Positive with Respect to Cathode

TYPICAL OPERATING CONDITIONS

Anode Voltage 14,000 Volts dc -48 to / 264 Volts dc Grid No.4 Voltage for Focus 300 Volts de Grid No.2 Voltage Grid No.1 Voltage Required for Cutoff -35 to -72 Volts dc Field Strength of PM Ion Trap Magnet⁵ 35 Gausses

CIRCUIT VALUES

Grid No.1 Circuit Resistance

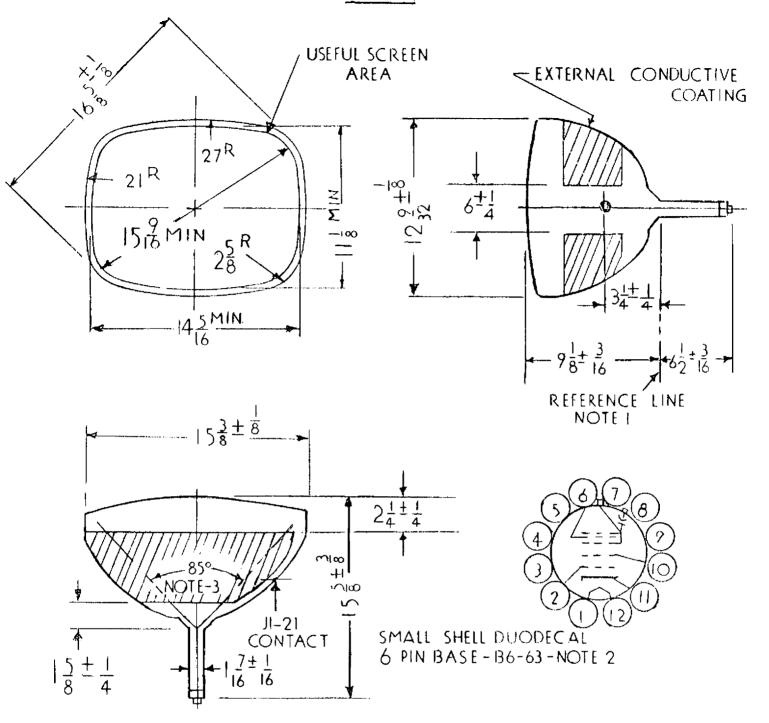
1.5 Max.Megohms

NOTES

- 1. External conductive coating must be grounded.
- 2. Grid No.3, Grid No.5 and the Collector are connected internally and are referred to herein as "Final Anode".
- 3. The focus electrode may be modulated to improve overall focus
- Visual extinction of focused raster. 4.
- 5. For typical PM ion trap magnet with field strength tolerance of / 3 gausses.

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 voltage in excess of 16,000 volts.



NOTES:

- 1. REFERENCE LINE AS DETERMINED BY PLANE C-C' of REFERENCE LINE GAUGE RETMA #116.
- 2. PIN POSITION No.6 TO BE ALIGNED WITH ANODE BUTTON \neq 30°.
- 3. DIAGONAL DEFLECTION ANGLE IS 90°.