

RAYTHEON

CATHODE RAY TUBE

CK1395P-

The CK1395P- is a 24" rectangular cathode-ray tube which features magnetic major deflection and electrostatic minor deflection. The low-capacitance deflection design permits high speed character formation. Character positioning is accomplished magnetically. High resolution and high brightness are also major features of this tube type. The CK1395P- can be obtained with any of the JEDEC standard phosphors.

ELECTRICAL DATA

GENERAL CHARACTERISTICS:

Heater Voltage	6.3 volts
Heater Current at 6.3 Volts	.6 ± 10% amperes
Focusing Method	Electrostatic
Deflection Method	
Major: Deflection Angle Diagonal	90° Magnetic
Minor: Deflection	Electrostatic 2.5°

DIRECT INTERELECTRODE CAPACITANCES:

Cathode to All	6 pf
Grid No. 1 to All	9 pf
D1 to All	2.5 pf
D2 to All	2.5 pf
D3 to All	2.5 pf
D4 to All	2.5 pf

OPTICAL DATA

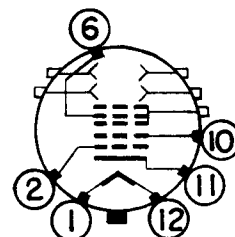
Screen	P31 Aluminized
Fluorescence	Green
Persistence	Medium
Face Plate (neutral gray) transmission	76%

MAXIMUM RATINGS: (Absolute Maximum Ratings)

Anode Voltage	18,000 Max. Volts
Focus Electrode	1,000 Max. Volts
Deflection Plate-to-Plate Voltage (MEAN = EA_2)	1,000 Max. Volts
Grid No. 2 Voltage	700 Max. Volts
Grid No. 1 Voltage	180 Max. Volts
Negative Bias Value	180 Max. Volts
Positive Bias Value	0 Max. Volts
Positive Peak Value	2 Max. Volts
EHK	± 180 Max. Volts
Grid No. 1 Circuit Resistance	1.5 Max. Megohms
Grid No. 2 Circuit Resistance	.1 Max. Megohm
Deflection Plate Circuit Resistance	5.0 Max. Megohms

MECHANICAL DATA

Overall Length	23" ± 1/4"
Bulb Number	J192A
Bulb Contact	Recessed
E. S. Deflection Contacts	Modified
	J1-22



BASING 12M
Base (6-63)

TERMINAL CONNECTIONS:

Pin 1	Heater
Pin 2	Grid #1
Pin 6	Focus Electrode
Pin 10	Grid #2
Pin 11	Cathode
Pin 12	Heater
Metal Cap	Anode



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TYPICAL OPERATING CONDITIONS:

Anode Voltage	14,000 Volts
Focus Electrode Voltage	0 to 400 Volts
Grid No. 2 Voltage	400 Volts
Grid No. 1 Voltage (for cutoff)	-30 to -60 Volts
Grid drive for 125 μ A I_k (nominal)	25 Volts
Light Output Note 1	50 FL
Dynamic Focus Voltage Required	Δ 500 Volts
Resolution Note 1	.015"
Spot Position, Focused and Undeflected	.625" Radius of true center

ELECTROSTATIC DEFLECTION CHARACTERISTICS:

D1, D2 Deflection Factor	230 Volts Per Inch Max.
D3, D4 Deflection Factor	230 Volts Per Inch Max.
Deflection (ES) Orthogonality	
D1, D2 to D3, D4	$\pm 1^\circ$
D1, D2 to Bulb Axes	$\pm 3^\circ$
Maximum Useful Scan	
D1, D2	3/4"
D3, D4	3/4"

NOTE 1: Light output stated is at .5" per microsecond writing rate, refreshed 60 times per second. Line width stated is also under the same conditions. $I_k = 125 \mu$ A approx.

