

Oscillograph-Type Cathode-Ray Tube

7-IN DIAMETER
ELECTROSTATIC DEFLECTION

POST-DEFLECTION ACCELERATOR
ELECTROSTATIC FOCUS

For General Oscillographic Applications in which Low-Speed or Medium Speed Recurrent-Wave Phenomena are to be Observed

ELECTRICAL

Heater Current at 6.3 V	0.6	A
Direct Interelectrode Capacitances (Approx.)		
Grid-No.1 to all other electrodes.	6	pF
Cathode to all other electrodes.	7.5	pF
DJ1 to DJ2	3	pF
DJ3 to DJ4	2	pF
DJ1 to all other electrodes.	9	pF
DJ2 to all other electrodes.	9	pF
DJ3 to all other electrodes.	7	pF
DJ4 to all other electrodes.	7	pF
Focusing Method.	Electrostatic	
Deflection Method.	Electrostatic	

OPTICAL

Phosphor	P31
Flourescence and phosphorescence	Green
Persistence.	Medium-Short
Faceplate.	Clear Glass
Shape.	Curved, Circular
Minimum Useful Screen Diameter	6 in

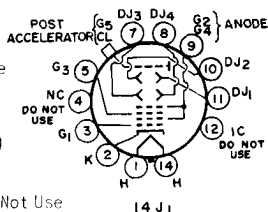
MECHANICAL

Operating Position	Any
Weight (Approx.)	3 lb
Overall Length	14.62 + 0.25-0.50 in
Greatest Diameter.	7.12 in
Bulb	J56H/A
Base	Medium-Shell

TERMINAL DIAGRAM (Bottom View)

- Pin 1 - Heater
- Pin 2 - Cathode
- Pin 3 - Grid No.1
- Pin 4 - No Connection - Do Not Use
- Pin 5 - Grid No.3
- Pin 7 - Deflecting Electrode DJ3
- Pin 8 - Deflecting Electrode DJ4
- Pin 9 - Anode (Grids No.2 & No.4)
- Pin 10 - Deflecting Electrode DJ2
- Pin 11 - Deflecting Electrode DJ1
- Pin 12 - Internal Connection - Do Not Use
- Pin 14 - Heater

Cap - Post-Accelerator (Grid No.5 & Collector)



ABSOLUTE-MAXIMUM AND MINIMUM RATINGS

Post-Deflection Accelerator Voltage.	8000 max	V
Anode Voltage.	4000 max	V
Grid-No.3 (Focusing-Electrode) Voltage	2000 max	V



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DATA 1
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Grid-No. 1 Voltage

Negative bias value.	200 max	V
Positive bias value.	0 max	V
Positive peak value.	2 max	V

Heater Voltage	{ 6.9 max	V
	{ 5.7 min	V

Peak Heater-Cathode Voltage

Heater negative with respect to cathode. .	125 max	V
Heater positive with respect to cathode. .	125 max	V

TYPICAL OPERATING VALUES

*Unless otherwise specified all values
are positive with respect to cathode*

Post-Deflection Accelerator Voltage. . . .	6000	V
Anode Voltage.	3000	V
Grid-No. 3 (Focusing-Electrode) Voltage . .	750 to 1200	V
Grid-No. 1 Voltage.	-58 to -93	V

For visual cutoff of focused spot

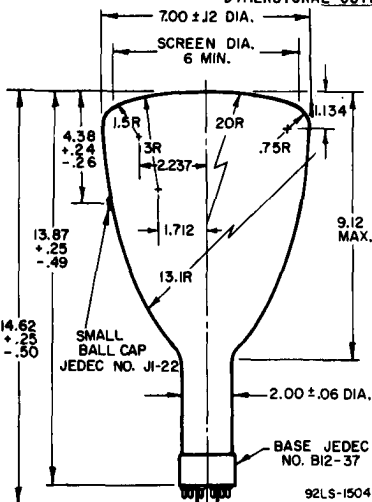
Deflection Factors

DJ1 and DJ2.	133 to 153 V (dc)/in
DJ3 and DJ4.	99 to 115 V (dc)/in

MAXIMUM CIRCUIT VALUES

Grid-No. 1-Circuit Resistance	1.5 max	MΩ
Resistance in any Deflection Electrode Circuit^a. .	5 max	MΩ

^a It is recommended that the deflecting-electrode-circuit resistances be approximately equal.

DIMENSIONAL OUTLINE

Center line of bulb will not deviate more than 2° in any direction from the perpendicular erected at the center of bottom of the base.

The plane through the tube axis and pin 5 may vary from the trace produced by DJ1 and DJ2 by an angular tolerance (measured about the tube axis) of ± 10°. Angle between DJ1 - DJ2 trace and DJ3 - DJ4 trace is 90° ± 3°.

DJ1 and DJ2 are nearer the screen; DJ3 and DJ4 are nearer the base. With DJ1 positive with respect to DJ2, the spot will be deflected toward pin 5; likewise, with DJ3 positive with respect to DJ4, the spot will be deflected toward pin 2.

DIMENSIONS IN INCHES

