

(5)

L-4010

COMPOSIPIX

Dual Deflection High Definition
Character Writing CRT

(Tentative)

HIGH DEFINITION - 3,000 TV LINES
ELECTROSTATIC DEFLECTION FOR CHARACTER WRITING
EQUAL DEFLECTION SENSITIVITY ON EACH AXIS
ELECTROMAGNETIC DEFLECTION FOR CHARACTER POSITIONING
COMMON DEFLECTION ZONES FOR BOTH SYSTEMS
METALLIZED HIGHLY ACTINIC PHOSPHOR SCREEN
ACTIVE SCREEN AREA $4\frac{1}{4}$ " DIAMETER
SCREEN VOLTAGE UP TO 30,000 VOLTS

APPLICATIONS

Suggested applications include: high speed display of characters by beam writing techniques, especially for computer read-out, photographic applications, electronic character forming, etc.

DATA

GENERAL

Heater voltage (AC or DC) 6.3 volts
Heater current 0.6 amperes
Direct Interelectrode Capacitances:
Grid #1 to all other electrodes 8 uuf
Cathode to all other electrodes 5 uuf
*Phosphor Screen
Aluminized, controlled micro particle size P-11
Fluorescence blue
Phosphorescence blue
Decay rate fast
Focusing Method Magnetic
Deflection Method Magnetic
Deflection Angle 40°
Auxiliary Deflection Method-Electrostatic
Auxiliary Deflection Angle (Approx.) 10°

*This tube may be obtained with other standard phosphors on special order.

MECHANICAL DATA

Overall Length $17\frac{3}{4}" + \frac{1}{4}"$
Bulb Diameter, max. $5\frac{1}{4}" + 1\frac{7}{16}"$
Minimum Useful Screen Diameter $4\frac{1}{4}"$
Mounting Position Any
Caps - recessed small cavity
(JEITEC No. J1-21)
Base - small shell duodecal 7-pin
(JEITEC) No. B7-51)

MAXIMUM RATINGS

Screen (anode) voltage 30,000 DC
Grid #2 voltage 700 DC
Grid #1 voltage
Negative bias value 200 DC
Positive bias value -1 DC
Positive peak value 0
Peak heater-cathode voltage:
Heater negative with respect to cathode during equipment warm-up period not to exceed 15 seconds 410 DC
After equipment warm-up 150 DC
Heater pos. with respect to cathode 150 DC
Electrostatic Deflection System:
Sensitivity (equal deflection in the x and y axis)
20 KV anode-Approx. $0.375"/1000$ volts (+ 500 volts from anode)

TYPICAL OPERATION

Screen (anode) voltage 27,000 DC
Grid #2 voltage 500 DC
Grid #1 voltage for visual extinction of focused spot -110 DC
Circuit values:
Grid #1 circuit resistance 1.5 megs. max.

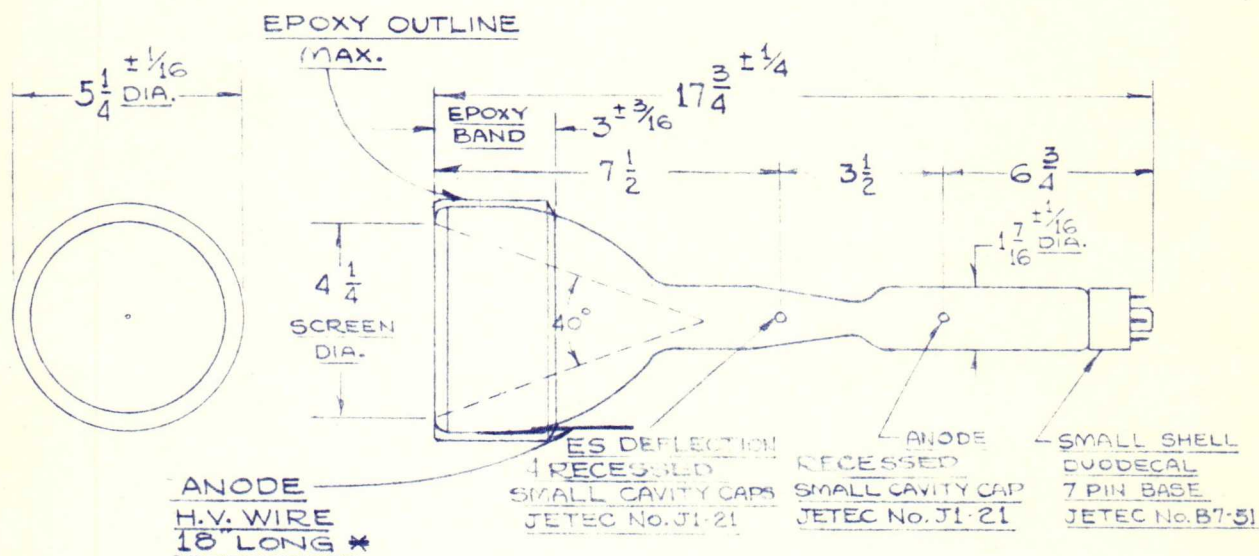
L-4010

"COMPOSIPIX"

5 INCH

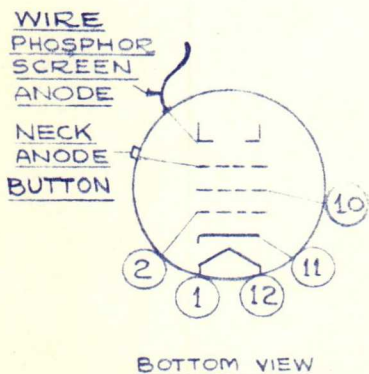
DUAL DEFLECTION HI DEFINITION
CHARACTER WRITING CRT

DIMENSIONAL OUTLINE



* OTHER LENGTHS ON REQUEST

BASING DIAGRAM



PIN 1 - HEATER

PIN 2 - GRID No.1

PIN 10 - GRID No.2

PIN 11 - CATHODE

PIN 12 - HEATER

ANODE - NECK BUTTON &
H.V. SCREEN LEAD

NOTE: FOUR SYMMETRICALLY POSITIONED BUTTONS
IN NECK - CONNECT TO ELECTROSTATIC
DEFLECTION PLATES.