

7TP4 MONITOR KINESCOPE

METAL-BACKED SCREEN
DOUS MAGNETIC DEFLECTION

ELECTROSTATIC FOCUS DATA General: Heater, for Unipotential Cathode: ac or dc volts Voltage 6.3 Current 0.6 amp Direct Interelectrode Capacitances (Approx.): $\mu\mu$ f Grid No.1 to All Other Electrodes . . Cathode to All Other Electrodes . . 5 μμf Clear Glass P4—Sulfide Type Fluorescence and Phosphorescence. White Persistence of Phosphorescence. . Short Electrostatic Focusing Method Deflection Method Magnetic Deflection Angle (Approx.). . 50° 13-1/8" ± 3/8" Overall Length. Greatest Diameter of Bulb . . . 7-3/16" ± 1/8" Minumum Useful Screen Diameter. 6" Picture Size (Within minimum-useful-screen area) 5-3/8" x 4" Cap Recessed Small Cavity (JETEC No. J1-21) Small-Shell Duodecal 6-Pin (JETEC No. B6-63) Base. . . . BOTTOM VIEW Pin 12 - Heater Pin 1 - Heater Pin 2 - Grid No.1 Cap - Grid No.4, Collector Pin 6 - Grid No.3 (Ultor) Pin 10 - Grid No.2 Pin 11 - Cathode Maximum Ratings, Design-Center Values: ULTOR® VOLTAGE. 12000 max. volts 2000 max. volts GRID-No.3 VOLTAGE volts GRID-No.2 VOLTAGE . 410 max. GRID-No.1 VOLTAGE: volts 125 max. Negative bias value. volts 0 max. Positive bias value . volts 2 max. Positive peak value.

For curves, see front of this Section.

In the 7TP4, grid No.4 which has the ultor function, and collector are connected together within the tube and are conveniently referred to collectively as "ultor". The "ultor" in a cathode-ray tube is the electrode, or the electrode in combination with one or more additional electrodes connected within the tube to it, to which is applied the highest do voltage for accelerating the electrons in the beam prior.

to its deflection.



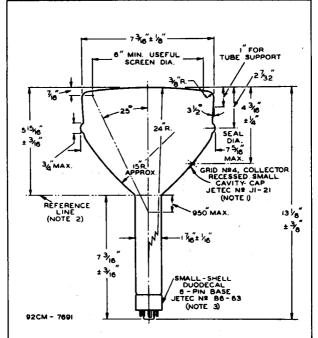


PEAK HEATER-CATHODE VOLTAGE: Heater negative with respect to cathode: During equipment warm-up period not exceeding 15 seconds 410 max. volts
After equipment warm-up period 180 max. volts Heater positive with respect to cathode. 180 max. volts
Equipment Design Ranges:
For any ultor voltage $(E_{ m u})$ between 10000° and 12000 volts and grid-No.2 voltage $(E_{ m c}_2)$ between 150 and 410 volts
Grid-No.3 Voltage for Focus with Ultor Current of 100 μ amp 11.6% to 15.8% of Eu volts Grid-No.1 Voltage for Visual
Extinction of Undeflected Focused Spot 11% to 25.7% of E _{C2} volts Grid-No.3 Current** See Curves
Grid-No.2 Current15 to +15 μ amp Field Strength of Adjustable
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Examples of Use of Design Ranges: For ultor voltage of 10000 volts
nor ultor voltage of 10000 volts and grid-No.2 voltage of 200 volts
Grid-No.3 Voltage for Focus with Ultor Current of 100 μamp 1160 to 1580 volts Grid-No.1 Voltage for Visual
Extinction of Undeflected Focused Spot22 to -52 volts
Maximum Circuit Values:
Grid-No.1-Circuit Resistance 1.5 max. megohms
* Brilliance and definition decrease with decreasing ultor voltage. In general, the ultor voltage should not be less than 10000 volts. **Grid-No.3 Current increases as the ultor voltage is decreased.



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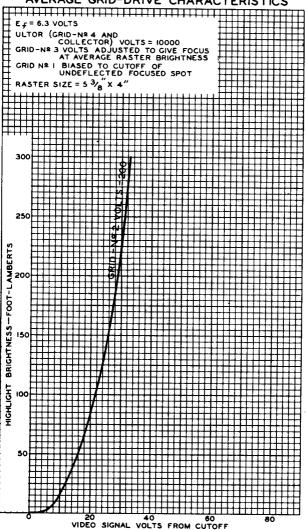


- NOTE 1: THE PLANE THROUGH THE TUBE AXIS AND PIN NO.6 MAY VARY FROM THE PLANE THROUGH THE TUBE AXIS AND BULB TERMI-NAL BY AN ANGULAR TOLERANCE (MEASURED'ABOUT THE TUBE AXIS OF ± 10°. BULB TERMINAL IS ON SAME SIDE AS PIN No.6.
- REFERENCE LINE IS DETERMINED BY POSITION WHERE NOTE 2: REFERENCE-LINE GAUGE (JETEC No. 112) 1.500" + 0.003" - 0.000" I.D. AND 2" LONG WILL REST ON BULB CONE.
- NOTE 3: SOCKET FOR THIS BASE SHOULD NOT BERIGIDLY MOUNTED; IT SHOULD HAVE FLEXIBLE LEADS AND BE ALLOWED TO MOVE FREELY. BOTTOM CIRCUMFERENCE OF BASE SHELL WILL FALL WITHIN CIRCLE CONCENTRIC WITH BULB AXIS AND HAVING DIA-METER OF 1-7/8".





AVERAGE GRID-DRIVE CHARACTERISTICS





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