

## 12DP7-B OSCILLOGRAPH TUBE

MAGNETIC FOCUS

MAGNETIC DEFLECTION

Supersedes Type 12DP7-A		
DATA General:		
Heater, for Unipotential Cathode:		
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Direct Interelectrode Capacitances (Approx.): Grid No.1 to All Other Electrodes 9 μμ		
Odenous to ini other Electricase to the transfer of		
Faceplate (with about 66% light transmission) Filterglass Phosphor (For Curves, see front of this Section) P7		
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Focusing Method Magneti Deflection Method Magneti		
Deflection Angle (Approx.)		
10.540		
Overall Length		
Minimum Useful Screen Diameter		
Weight (Approx.) 8 lb		
Mounting Position		
Cap Medium (JETEC No.C1-5		
Bulb		
Base Long Medium-Shell Octal 8-Pin (JETEC No.B8-65		
BOTTOM VIEW		
Pin 1-No Pin 6-No Connection		
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Con Ulter		
Connection (Grid No.3,		
Pin 5-Grid No.1 (Grid No.),		
Pili 5-Grid No.1 Corrector,		
Maximum Ratings, Design-Center Values:		
ULTOR VOLTAGE 10000 max. volt		
IGRID-No.2 VOLTAGE:		
Positive value (DC or Peak AC) 700 max. volt		
Negative value (DC or Peak AC) 180 max. volt		
IGRID-No.1 VOLTAGE:		
Negative bias value 180 max. volt		
Positive bias value* 0 max. volt		
Positive peak value 2 max. volt		
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In the 12DP7-B, grid No.3 which has the ultor function and collected are connected together within the tube and are conveniently referred to		
collectively as "ultor". The "ultor" in a cathode-ray tube is the elec		
trode, or the electrode in combination with one or more additional electrodes connected within the tube to it to which is applied the highes		
In the 12DP7-8, grid No.3 which has the ultor function and collector are connected together within the tube and are conveniently referred to collectively as "ultor". Fhe "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 highed or voltage for accelerating the electrons in the beam prior to its deflections.		
1 10001011		
At or near this rating, the effective resistance of the ultor suppl should be adequate to limit the ultor input power to 6 watts.		





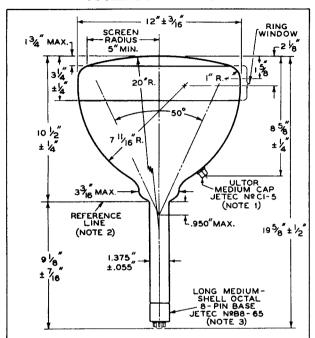
### OSCILLOGRAPH TUBE

PEAK GRID-No.1 DRIVE FROM CUTOFF 65 max. PEAK HEATER-CATHODE VOLTAGE:	volts	
Heater negative with respect to cathode . 125 max. Heater positive with respect to cathode . 125 max.	volts volts	
Equipment Design Ranges:		
For any ultor voltage $(E_{\mathbf{u}})$ between 4000* and 10000 volts and grid-No.2 voltage $(E_{\mathbf{c}_2})$ between 150 and 700 volts		
Grid-No.1 Voltage for Visual Extinction of Undeflected		
Focused Spot 10% to 28% of E <sub>c2</sub>	volts	
Grid-No.2 Current15 to +15	μamp	
Focusing-Coil Current (DC)°° $\sqrt{\frac{E_U}{4000}} \times 88.5 \pm 15\%$	ma	
Spot Position **		
Examples of Use of Design Ranges:		
For ultor voltage of 4000 7000	volts	
and grid-No.2 voltage of 250 250	volts	
Grid-No.1 Voltage for Visual	1	
Extinction of Undeflected		
Focused Spot25 to -70 -25 to -70	volts	
Focusing-Coil Current (DC) . 88.5 ± 15% 117 ± 15%	ma	
Maximum Circuit Values:		
Grid-No.1-Circuit Resistance 1.5 max.	megohms	
Brilliance and definition decrease with decreasing ultor volt general, the ultor voltage should not be less than 4000 volts.	. 1	
OO For specimen focusing coil similar to JETEC Focusing Coil positioned with air gap toward faceplate and center line of 4-1/8" from Reference Line (see Outline Drawing) and ultor cu 200 microamperes.	air gap urrent of	
## The center of the undeflected, unfocused spot will fall within having a 20-mm radius concentric with the center of the tube	a circle face.	
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### **OSCILLOGRAPH TUBE**



- NOTE 1: THE PLANE THROUGH THE TUBE AXIS AND PIN NO.5 MAY VARY FROM THE PLANE THROUGH THE TUBE AXIS AND ULTOR TERMINAL BY AN ANGULAR TOLERANCE (MEASURED ABOUT THE TUBE AXIS) OF  $\pm$  10°. ULTOR TERMINAL IS ON SAME SIDE OF TUBE AS PIN NO.5.
- NOTE 2: REFERENCE LINE IS DETERMINED BY POSITION WHERE GAUGE 1.430" + .003" -.000" I.D. AND 2" LONG WILL REST ON BULB CONE.
- NOTE 3: ¢ OF BULB WILL NOT DEVIATE MORE THAN 2° IN ANY DIRECTION FROM THE PERPENDICULAR ERECTED AT THE CENTER OF THE BOTTOM OF THE BASE.

92CM-6375R5





#### AVERAGE GRID-DRIVE CHARACTERISTICS

