MAZDA

30.C.3

CATHODE RAY TUBE-ALL ELECTROSTATIC. $5\frac{1}{2}$ Dia. Indirectly heated-for measurement purposes, with side connexions to both pairs of plates.

1	RATING						
	Heater Current (amps) Maximum 1st Anode Voltage (volts) Maximum 2nd Anode Voltage (volts) Maximum 3rd Anode Voltage (volts)	Vh Ih Val(max) Va2(max) Va3(max)	1	4.0 0.72 2,500 1,000 6,000			
i	Average Sensitivity of "X" Plates (mm/V)		t	600/V			
	Average Sensitivity of "Y" Plates (mm/V)		t	1,100/V			
	Where "V" denotes the voltage on the 3rd Anode and Bulb Coating.						
	INTER-ELECTRODE CAPACITANCES						
	XI Deflecting Plate/All other electrodes X2 Deflecting Plate/All other electrodes Y1 Deflecting Plate/All other electrodes Y2 Deflecting Plate/All other electrodes Y2 Deflecting Plate/Y1 Deflecting Plate X1 Deflecting Plate/Y1 Deflecting Plate X2 Deflecting Plate/Y2 Deflecting Plate X2 Deflecting Plate/Y1 Deflecting Plate X2 Deflecting Plate/Y2 Deflecting Plate Control Grid (Wehnelt)/All other electrodes (NUF) X1 Deflecting Plate/Y2 Deflecting Plate Y1 Deflecting Plate	(uuf)	Cx1,all Cx2,all Cy1,all Cy1,all Cy2,all Cx1,yl Cx2,yl Cx2,yl Cx2,y2 Cg,all Cx1,x2 Cy1,y2	6.0 6.0 8.6 8.6 0.25 0.25 0.25 0.25			
	DIMENSIONS						
	Maximum Overall Length (mm) Maximum Diameter (mm) Nominal Screen Diameter (inches)			430 140 5 1			
	Approximate Nett Weight (ozs) Approximate Packed Weight (lbs)			30 11 1			

NOTES

30.C.3

The commexions to the deflector plates are brought out to side contacts on the neck of the tube in order to reduce the inductance and capacitance of the leads, and the coupling between the X and Y plates. It is intended, particularly, for H.F. and pulse measurements.

For general measurement work the 30.0.3/Fl is recommended. This has a screen with a medium persistence green phosphor. For special applications, however, the tube may be supplied with any of the standard phosphors described on the Introductory Page to this section.

Final Anode and Bulb coating are brought out separately in order to enable a finer spot or a higher writing speed to be obtained by increasing the Final Anode voltage above the limit set for the let Anode Voltage.

In use the 3rd Anode and Bulb coating are normally joined.

Issue 2/3

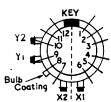
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TYPICAL OPERATION			
3rd Anode Voltage (volts) 2nd Anode Voltage - approximate	v_{a3}	2,000	6,000
for focus (volts) lst Anode Voltage (volts) Average Bias on Control Grid	$v_{a1}^{V_{a2}}$	2,000	2,000
for Cut-off of Beam Current (volts)	$v_{\mathbf{g}}$	-60	-60
Average Working Bias for 20µA Beam (volts)		-33	-33
Approximate Sensitivity of "X" Plates (mm/V)		0.30	0.1
Approximate Sensitivity of "Y" Plates (mm/V)		0.57	0.19

BASE 12 Contact Key Base BS.448.



CONNEXIONS

ì		
Pin 1	Control Grid	g
Pin 2	Cathode	g k
Pin 3	Heater	h
Pin 4	Heater	h
Pin 5	Anode 1	al
Pin 6	Anode 2	a2
Pin 7	-	-
Pin 8	_	-
Pin 9		-
Pin 10	Anode 3	a 3
Pin 11	-	-
Pin 12	-	_
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