EDISWAN MAZDA 30BI

3081

CATHODE RAY TUBE—ALL ELECTROSTATIC 3½" Dia.

Indirectly heated high grade precision measurement cathode ray tube with a polished flat face.

RATING		
Heater Voltage (volts) Vh Heater Current (amps) Ih		4.0 0.72
Maximum 1st Anode Voltage (volts) Val(m Maximum 2nd Anode Voltage (volts) Va2(m	ax)	2,500 1,000
Maximum 3rd Anode Voltage (volts) Va3(m Average Sensitivity of "X" Plates	ax)	6,000
(mm/V)	•	360/V
Average Sensitivity of "Y" Plates (mm/V)	•	800/V
Where "V" denotes the voltage on the 3rd Anode and bulb coating.	l	·
INTER-ELECTRODE CAPACITANCES		
X1 Deflecting Plate/All other electrodes (µµF) X2 Deflecting Plate/All other electrodes (µµF) Y1 Deflecting Plate/All other electrodes (µµF) Y2 Deflecting Plate/All other electrodes (µµF) X1 Deflecting Plate/Y1 Deflecting Plate (µµF) X2 Deflecting Plate/Y2 Deflecting Plate (µµF) X2 Deflecting Plate/Y2 Deflecting Plate (µµF) X2 Deflecting Plate/Y2 Deflecting Plate (µµF) Control Grid (Wehnelt)/All other electrodes (µµF)	Cx1,all Cx2,all Cy1,all Cy2,all Cx1,y1 Cx1,y2 Cx2,y1 Cx2,y2 Cg,all	15.0
DIMENSIONS		
Maximum Overall Length (mm) Maximum Diameter (mm) Nominal Screen Diameter (inches) Approximate Nett Weight (ozs) Approximate Packed Weight (lbs)		340 90 31 21 101

NOTES

For general measurement work the 30.B.1/Pl 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 1st Anode Voltage.

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

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SIEMENS EDISON SWAN LIMITED

EDISWAN MAZDA

30B1

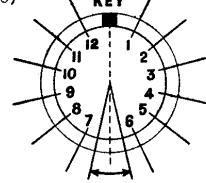
CATHODE RAY TUBE—ALL ELECTROSTATIC 3½ " Dia.

Indirectly heated high grade precision measurement cathode ray tube with a polished flat face.

TYPICAL OPERATION					
3rd Anode Voltage (volts) 2nd Anode Voltage - approx-	Vaz	2,000	5,000		
imate, for focus (volts)	v_{a2}	440	800		
1st Anode Voltage (volts)	Val	2,000	2,000		
Average Bias on Control Grid					
for Cut-off of Beam Current (volts)	$v_{\mathbf{g}}$	-60	-60		
Average Working Bias for 20µA	· C				
Beam (volts)		-33	-33		
Approximate Sensitivity of "X" Plates (mm/V)		0.20	0.08		
Approximate Sensitivity of					
"Y" Plates (mm/V)		0.30	0.12		
			j		
BASE 12 Contact Key Base (BS	.448)	\ KEY /	1		
VIEW OF FREE END					
	_	710 37	T 1		

PERMISSIBLE ANGULAR

VARIATION OF MOUNTS ± 10°



CONNEXIONS

Pin 1 Pin 2 Pin 3 Pin 4 Pin 5 Pin 6 Pin 7 Pin 8 Pin 9 Pin 10	Control Grid Cathode Heater Heater Anode 1 Anode 2 Internal Coating Deflecting Plate Y2 Deflecting Plate X2 Anode 3	n h al a2 m y2 x2 a3 x1 y1
	Deflecting Plate X2	y2 x2 a3
Pin 11 Pin 12	Deflecting Plate X1 Deflecting Plate Y1	x1 y1

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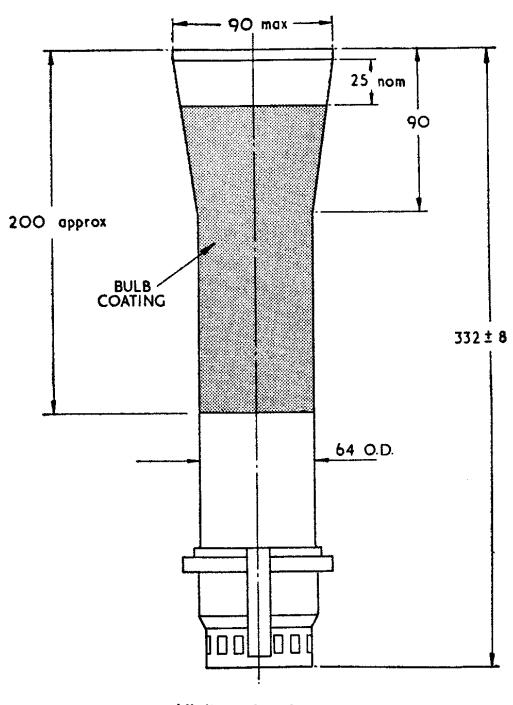
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EDISWAN 30BI

300,

CATHODE RAY TUBE—ALL ELECTROSTATIC $3\frac{1}{2}$ " Dia. Indirectly heated high grade precision measurement cathode ray tube with a polished flat face



All dimensions in mm.

August 1958

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