EDISWAN MAZDA ROBI



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) Heater Current (amps) Maximum lat Anode Voltage (volts) Maximum 2nd Anode Voltage (volts) Maximum 3rd Anode Voltage (volts)	Vh Ih Val(max) Va2(max) Va3(max)	4.0 0.72 2,500 1,000 6.000
Average Sensitivity of "X" Plates (mm/V) Average Sensitivity of "Y" Flates (mm/V)	dovinary	360/V 800/V
•		

Where "V" denotes the voltage on the 3rd Anode and bulb coating.

INTER-ELECTRODE CAPACITANCES

X2 Deflecting Y1 Deflecting Y2 Deflecting X1 Deflecting X1 Deflecting X2 Deflecting X2 Deflecting X2 Deflecting	Plate/All other electrodes (µµF) Plate/All other electrodes (µµF) Plate/All other electrodes (µµF) Plate/All other electrodes (µµF) Plate/Yl Deflecting Plate (µµF) Wehnelt/All other electrodes	Cx1,a11 Cx2,a11 Cy1,a11 Cy2,a11 Cx1,y1 Cx1,y2 Cx2,y1 Cx2,y2	15.0 15.0 14.5 14.5 1.0 1.0 1.25
(muF)	Hemieral/Wir coust erectioner	Cg.all	9.5

DIMENSIONS

Maximum Overall Length (mm) Maximum Diameter (mm)	340 90
Nominal Screen Diameter (inches)	90 3½ 21 10%
Approximate Nett Weight (ozs)	104
Approximate Packed Weight (1bs)	104

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 let Anode Voltage.

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

EDISWAN

MAZDA 30BI

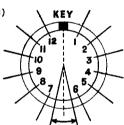
CATHODE RAY TUBE—ALL ELECTROSTATIC 3½ " Dia. Indirectly heated high grade precision measurement cathode ray tube with a polished flat face.

TYPICAL OPERATION			
3rd Anode Voltage (volts) 2nd Anode Voltage - approx-	Vaz	2,000	5,000
imate, for focus (volts) lst Anode Voltage (volts) Average Bias on Control Grid	v_{a2}	2,000	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)		0.20	0.08
Approximate Sensitivity of "Y" Plates (mm/V)		0.30	0.12

BASE 12 Contact Key Base (BS.448)

VIEW OF FREE END

PERMISSIBLE ANGULAR
VARIATION OF MOUNTS ± 10°



CONNEXIONS

30B1

Pin 1	Control Grid	2
Pin 2	Cathode	Ř
Pin 3	Heater	ħ
Pin 4	Heater	ħ
Pin 5	Anode 1	al
Pin 6	Anode 2	a2
Pin 7	Internal Coating	n
Pin 8	Deflecting Plate Y2	y2
Pin 9	Deflecting Plate X2	x2
Pin 10	Anode 3	83
Pin 11	Deflecting Plate X1	x1
Pin 12	Deflecting Plate Yl	ÿĩ

February 1949

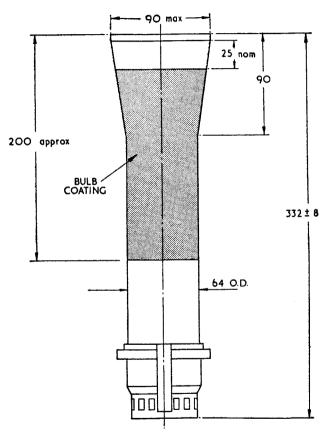
VALVE & CRT DIVISION

Issue 2/3

SIEMENS EDISON SWAN LIMITED

EDISWAN 30B1

CATHODE RAY TUBE—ALL ELECTROSTATIC 31" Dia. Indirectly heated high grade precision measurement cathode ray tube with a polished flat face



All dimensions in mm.

INDUSTRIAL

308,