MAZDA

30.E.6

CATHODE RAY TUBE–ALL ELECTROSTATIC 12" Dia.

For measurement purposes

RATING

Heater Voltage (volts)	Vh	4.0
Heater Current (amps)	Ih	0.72
Maximum 1st Anode Voltage (volts)	Va1(max)	500
Maximum 2nd Anode Voltage (volts)	Va2(max)	1,200
Maximum 3rd Anode Voltage (volts)	Va3(max)	6,000
Average Sensitivity of "X" Plates (mm/V)		*900/V
Average Sensitivity of "Y" Plates (mm/V)		*900/V

* Where "V" denotes the voltage on the 3rd Anode.

DIMENSIONS

Maximum Overall Length (mm)	640
Maximum Diameter (mm)	312
Nominal Screen Diameter (inches)	12
Approximate Nett Weight (lbs)	7½
Approximate Packed Weight (lbs)	40

NOTES

For general measurement work the 30E6/P1 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 in the Introductory page to this Section.

All Maximum Ratings are Absolute values not Design Centres.

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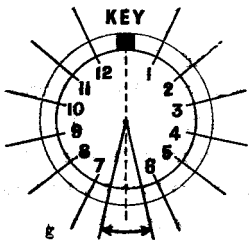
TYPICAL OPERATION

3rd Anode Voltage (volts)	Va3	5,000	6,000
*2nd Anode Voltage - approximate for focus (volts)	Va2	1,000	1,200
1st Anode Voltage (volts)	Va1	400	400
Negative Bias on Control Grid for Cut-off of beam Current (volts)	Vg	30-60	30-60

* The voltage required on the 2nd Anode for focus decreases with an increase of beam current and the above figure gives the voltage required at low currents.

BASE 12 Contact Key Base (BS448)

VIEW OF FREE END



PERMISSIBLE ANGULAR VARIATION OF MOUNTS ±10°

CONNECTIONS

Pin 1	Control Grid	g
Pin 2	Cathode	k
Pin 3	Heater	h
Pin 4	Heater	h
Pin 5	Anode 1	a1
Pin 6	Anode 2	a2
Pin 7	Internal Coating	m
Pin 8	Deflecting Plate Y2	y2
Pin 9	Deflecting Plate X2	x2
Pin 10	Anode 3	a3
Pin 11	Deflecting Plate X2	x1
Pin 12	Deflecting Plate Y1	y1

THE EDISON SWAN ELECTRIC COMPANY LTD.