#### MAZDA

30.C.9

### CATHODE RAY TUBE - ALL ELECTROSTATIC 7" Dia. indirectly heated-for measurements

MITING		
Heater Voltage (volts)	v <sub>h</sub>	4.0
Heater Current (amps)	ı ı <sub>h</sub>	0.72
Maximum 1st Anode Voltage (volts)	Val(max)	500
Maximum 2nd Anode Voltage (volts)	Va2(max)	1,000
Maximum 3rd Anode Voltage (volts)	Va3(max)	4,000
Average Sensitivity of "X" plates		#520/V
Average Sensitivity of "Y" plates	( V/.mm./V )	<b>₩</b> 520/V
* Where "V" denotes the volt	age on the 3rd A	node.
All Maximum Ratings are Absol	ute values not De	sign
INTER-ELECTRODE CAPACITANCES		
Xl Deflecting Plate/all other elec	trodes (MF) Cx1	,all 14.6

# Al Deflecting Flate/all other electrodes (pur) Y1 Deflecting Plate/all other electrodes (pur) Y2 Deflecting Plate/all other electrodes (pur) Y2 Deflecting Plate/all other electrodes (pur) Y1 Deflecting Plate/Y2 Deflecting Plate (pur) Y1 Deflecting Plate/Y2 Deflecting Plate (pur) X1+X2 Deflecting Plates/Y1+Y2 Deflecting

Cyl, all Cy2, all Cy2, all Cx1, x2 Cyl, y2 C(X1+X2)

XIAXE Delice (pur)
Plates (pur)
Control Grid (Wehnelt)/All other electrodes (pur)

2.7 (Y1+Y2) 8.6 Cg,all

Cx2, all

14.0

13.6

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#### DIMENSIONS

DATENCE

Maximum Overall Length (mm)	495
Maximum Diameter (mm)	175
Nominal Screen Diameter (inches)	7
Approximate Nett Weight (1bs)	21 11
Approximate Packed Weight (10s)	112

#### NOTES

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The 30.C.9 is a precision contructed instrument for applications where the accuracy of the gun contructtion employed in compass tubes is required without the provision of scales.

The gun system is capable of providing the high beam currents when pulse modulation of the grid is required.

For general measurement work the 30.C.9/Pl is recommended. This has a screen with a medium persist-ence green phosphor. For special applications, however, the tube may be supplied with any of the standard phosphors described on the introductory page in this section.

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## MAZDA

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# 30,C.9 CATHODE RAY TUBE - ALL ELECTROSTATIC. 7" Dia Indirectly heated-for measurements

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TYPICAL OPERATIO	N			
3rd Anode Voltag	e (volts)	V <sub>e3</sub>	2,200	
2nd Anode Voltag	e-approximate for (volts) +	V <sub>a2</sub>	440	
lst Anode Voltag	e (volts)	$v_{al}$	450	
Negative Bias on cut-off of Beam	Control Grid for Current (volts)	$v_{\mathbf{g}}$	30-90	
The voltage required on the 2nd Anode for focus decreases with an increase of beam current and the above figure gives the woltage required at low current.				
BASE 12 contact	Kay Base	\ KEY	,	
(BS.4	48)		· /	
	REE END LE ANGULAR F MOUNTS ± 10°	10 9 8 7 8 5	美	
CONNECTIONS				
Pin 1	Control Grid	2		
Pin 2	Cathode			
Pin 3	Heater	h		
Pin 4	Heater	h		
Pin 5	Anode 1	al		
Pin 6	Anode 2	<b>a2</b>		
Pin 7	-	-		
Pin 8	Deflecting Plate 1	r2 <b>Y2</b>		
Pin 9	Deflecting Plate 1	n n		
Pin 10	Anode 3	<b>a</b> 3		
Pin 11	Deflecting Plate )	a xı		
Pin 12	Deflecting Plate	c2 12		

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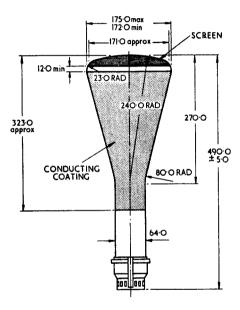
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## EDISWAN

#### 30C9

#### CATHODE RAY TUBE-ALL ELECTROSTATIC 7" Dia.

Indirectly heated—for measurements



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30C9

All dimensions in mm.

INDUSTRIAL
VALVE & CRT DIVISION