

Specification MOS(A)/CV2244 Issue 2 Dated 11.2.53 To be read in conjunction with K1001	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

—————> Indicates a change

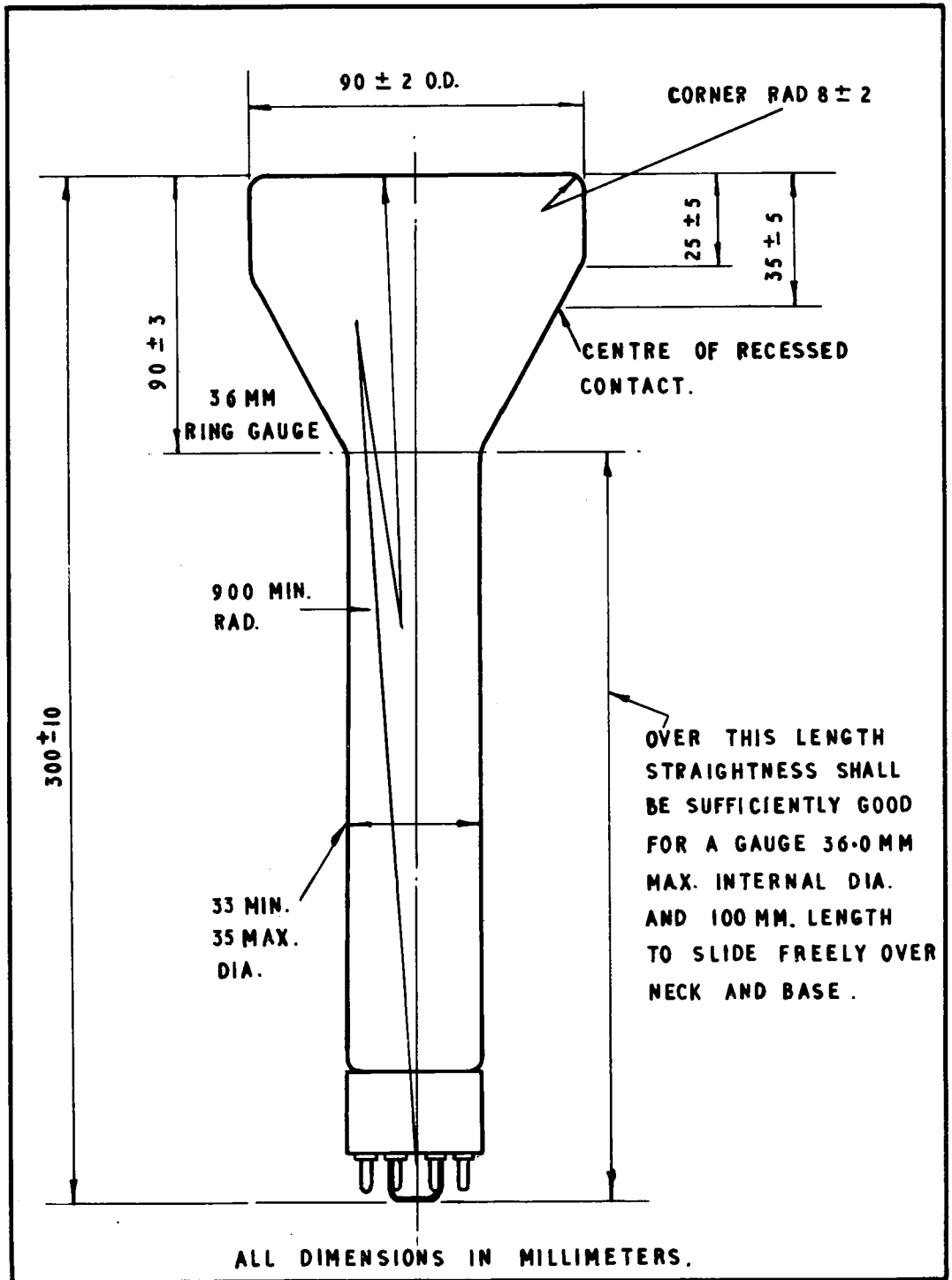
TYPE OF VALVE - Cathode Ray Tube TYPE OF DEFLECTION - Magnetic TYPE OF FOCUS - Electro-static BULB - Internally coated with conductive coating SCREEN - YY7 PROTOTYPE - VCRX258	<u>MARKING</u> See K1001/4 <u>BASE</u> IO <u>CONNECTIONS</u>																																																		
<u>RATINGS</u>	<u>Pin</u> <u>Electrode</u>																																																		
<table border="1" style="width: 100%;"> <thead> <tr> <th></th> <th></th> <th style="text-align: center;">Note</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Heater Voltage</td> <td>(V)</td> <td>4.0</td> <td></td> <td>1</td> </tr> <tr> <td>Heater Current</td> <td>(A)</td> <td>1.0</td> <td></td> <td>2</td> </tr> <tr> <td>Max. First Anode Voltage</td> <td>(kV)</td> <td>1.45</td> <td>A</td> <td>3</td> </tr> <tr> <td>Max. Third Anode Voltage</td> <td>(kV)</td> <td>8.0</td> <td>A</td> <td>4</td> </tr> <tr> <td>Max. Peak Beam Current</td> <td>(μA)</td> <td>100</td> <td>A</td> <td>5</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>6</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>7</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>8</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>S.C.</td> </tr> </tbody> </table>			Note			Heater Voltage	(V)	4.0		1	Heater Current	(A)	1.0		2	Max. First Anode Voltage	(kV)	1.45	A	3	Max. Third Anode Voltage	(kV)	8.0	A	4	Max. Peak Beam Current	(μ A)	100	A	5					6					7					8					S.C.	No connection A1 A2 No connection G C H H A3
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	<u>DIMENSIONS</u> See Drawing on Page 4																																																		
<u>NOTES</u>																																																			
A. Absolute maximum value. B. The first anode must always be at least 50V positive to the second anode and the supply network must take account of variations in first anode current from zero to working value.																																																			

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits		No. Tested	Note
	Vh (V)	Va3 (kV)	Va2 (kV)	Va1 (kV)	Vg (V)		Min.	Max.		
a						CAPACITANCES (pF) 1. Cg-c 2. Cc-h	-	10	5% (20)	
	See K1001/5A.13									
b	4.0	0	0	0	0	Ih (A)	0.95	1.15	100%	
c	4.0	7.0	Adjust for optimum focus	1.25	Adjust to cut off	Vg (V) Value to be noted	-40	-80	100%	
d	4.0	7.0	As for Test(c)	1.25	-	Light Intensity Beam Current (uA)	-	100	100%	
	Using a raster of convenient size, adjust to give a light output of 1.0 candela.									
e	4.0	7.0	As for Test(c)	1.25	-	1. Vg (V) 2. Change in Vg from value found in Test (c)(V) 3. The beam current shall increase continuously over the range of Vg from cut-off to that value required for Test (d).	-1	-	100%	
	Adjust Vg to value found in Test (d).							35		
f	4.0	7.0	As for Test(c)	1.25	-	1. Line width (mm) 2. Va2 (V)	-	0.5	100%	
	<p><u>DEFLECTION</u> - With a sine wave time base of 10 kc/s nom. and line length of 80 mms in X and Y directions, successively.</p> <p><u>GRID</u> - The grid shall be pulsed positively with amplitude equal to the value obtained in Test (e.2), the nominal values of pulse duration and recurrence being 100/usecs and 100 c/s respectively.</p>						850	1050		

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