

Specification MAP/CV72/Issue 3 Dated 29.8.46. To be read in conjunction with K1001, ignoring clauses 5.2, 5.3.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> RESTRICTED

→ Indicates a change

<u>TYPE OF VALVE</u> - Output Tetrode <u>CATHODE</u> - Indirectly heated <u>ENVELOPE</u> - Glass-unmetallised		<u>MARKING</u> See K1001/4																					
<u>RATING</u>		<u>BASE</u> B7																					
Heater Voltage (V) 6.3 Heater Current (A) 1.65 Max. Anode Voltage (kV) 1.5 Max. Peak Anode Voltage (kV) 3.0 Max. Screen Voltage (kV) 0.7 Max. Anode Dissipation (W) 10.0 Max. Screen Dissipation (W) 2.5 Max. Grid Negative Bias (kV) 0.7 Max. Grid to Screen Voltage (kV) 1.2 Max. Peak Cathode Current (A) 3.5 Mutual Conductance (mA/V) 8.7		Notes A B	<table border="1"> <tr> <th>Pin</th> <th>Electrode</th> </tr> <tr> <td>1</td> <td>No connection</td> </tr> <tr> <td>2</td> <td>Control Grid</td> </tr> <tr> <td>3</td> <td>Screen Grid</td> </tr> <tr> <td>4</td> <td>Heater</td> </tr> <tr> <td>5</td> <td>Heater</td> </tr> <tr> <td>6</td> <td>Cathode and beam forming plates</td> </tr> <tr> <td>7</td> <td>No connection</td> </tr> <tr> <td>T.C.</td> <td>Anode</td> </tr> </table>	Pin	Electrode	1	No connection	2	Control Grid	3	Screen Grid	4	Heater	5	Heater	6	Cathode and beam forming plates	7	No connection	T.C.	Anode		
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<u>CAPACITANCES (pF)</u> Ca - all 6.7 Cg - all 23.5 Cag 0.8		<u>TOP CAP</u> See K1001/AI/D5.1																					
		<u>DIMENSIONS</u> See K1001/AI/D1																					
		<table border="1"> <thead> <tr> <th colspan="2">Dimension</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>(mm)</td> <td>131</td> <td>143</td> </tr> <tr> <td>B</td> <td>(mm)</td> <td>53</td> <td>57</td> </tr> <tr> <td>D</td> <td>(mm)</td> <td>39</td> <td>44</td> </tr> <tr> <td>J</td> <td>(mm)</td> <td>67</td> <td>79</td> </tr> </tbody> </table>		Dimension		Min.	Max.	A	(mm)	131	143	B	(mm)	53	57	D	(mm)	39	44	J	(mm)	67	79
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<u>NOTES</u>																							
A. Under pulse conditions of approx. 10 μsec. duration and 400 : 1 minimum off-on ratio B. $V_a = V_{g2} = 200V.$, $I_a = 40 \text{ mA.}$																							

To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits		No. Tested
	Vh	Va	Vg2	Vg1	Ia(mA)		Min.	Max.	
a	6.3	0	0	0	0	Ih (A)	1.5	1.85	100% or S
b	6.3	200	200	-	40	Vg1 (V)	7.8	11.7	100%
c	6.3	200	200	4V. more positive than value noted in test 'b'	-	Ia rise (mA)	31.0	47.0	100%
d	6.3	200	200	-	40	Ig2 (mA)	7.4	11.0	100% or S
e	6.3	200	200	-	40	Reverse Ig1 (μ A)	-	1.5	100%
f	6.3	200	200	-60	-	Ig1 (μ A)	-	7.0	100%
g	6.3	Cathode 250V. positive to heater				Cathode Current (μ A)	-	250	100%
h	6.3	500	500	105 max.	-	Ia (A)	2.4	-	100%
		Vg1 shall be applied as an intermittent pulse of 10 to 12 usec. duration with a 400 : 1 off-on ratio. Ia measurement to be made when Vg is not more than 105V. positive							
j	6.3	200	200	-	0.1	Vg1 (V)	-	-26	100%