

Specification MAP/CV72/Issue 3 Dated 29.8.46. To be read in conjunction with K1001, ignoring clauses 5.2, 5.3.	<table> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specification</u></td><td><u>Valve</u></td></tr> <tr> <td>RESTRICTED</td><td>RESTRICTED</td></tr> <tr> <td><i>Unclassified</i></td><td><i>Unclassified</i></td></tr> </table>	<u>SECURITY</u>		<u>Specification</u>	<u>Valve</u>	RESTRICTED	RESTRICTED	<i>Unclassified</i>	<i>Unclassified</i>
<u>SECURITY</u>									
<u>Specification</u>	<u>Valve</u>								
RESTRICTED	RESTRICTED								
<i>Unclassified</i>	<i>Unclassified</i>								

→ Indicates a change

<u>TYPE OF VALVE</u> - Output Tetrode				<u>MARKING</u>			
<u>CATHODE</u> - Indirectly heated				See K1001/4.			
<u>ENVELOPE</u> - Glass-ummetallised							
<u>RATING</u>			<u>Notes</u>	<u>BASE</u>			
				B7			
Heater Voltage (V)			6.3	Pin	Electrode		
Heater Current (A)			1.65				
Max. Anode Voltage (kV)			1.5	1	No connection		
Max. Peak Anode Voltage (kV)			3.0	2	Control Grid		
Max. Screen Voltage (kV)			0.7	3	Screen Grid		
Max. Anode Dissipation (W)			10.0	4	Heater		
Max. Screen Dissipation (W)			2.5	5	Heater		
Max. Grid Negative Bias (kV)			0.7	6	Cathode and beam forming plates		
Max. Grid to Screen Voltage (kV)			1.2	7	No connection		
Max. Peak Cathode Current (A)			3.5	T.C.	Anode		
Mutual Conductance (mA/V)			8.7	<u>TOP CAP</u>			
<u>CAPACITANCES (pF)</u>				See K1001/AI/D5.1			
Ca - all			6.7	<u>DIMENSIONS</u>			
Cg - all			23.5	See K1001/AI/D1			
Cag			0.8				
				<u>Dimension</u>			
				Min.			
				Max.			
				A (mm)			
				B (mm)			
				D (mm)			
				J (mm)			
				131			
				53			
				39			
				67			
				143			
				57			
				44			
				79			
<u>NOTES</u>							
A. Under pulse conditions of approx.							
10 μ sec. 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. Vg1 shall be applied as an intermittent pulse of 10 to 12 μ sec. duration with a 400 : 1 off-on ratio. Ia measurement to be made when Vg is not more than 105V. positive	-	Ia (A)	2.4	-	100%
j	6.3	200	200	-	0.1	Vg1 (V)	-	-26	100%