

Specification MAP/CV1082/Issue 4 Dated 3.9.46. To be read in conjunction with K1001.	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification RESTRICTED</td><td>Valve RESTRICTED</td></tr> </table>	SECURITY		Specification RESTRICTED	Valve RESTRICTED
SECURITY					
Specification RESTRICTED	Valve RESTRICTED				

—————> Indicates a change

<u>TYPE OF VALVE</u> : Triode Heptode			<u>MARKING</u>			
<u>CATHODE</u> : Directly heated			See K1001/4			
<u>ENVELOPE</u> : Glass-metallised						
<u>PROTOTYPE</u> : 220 TH						
<u>RATING</u>		Note	<u>BASE</u> B7			
Filament Voltage (V)	2.0	A	Pin	Electrode		
Filament Current (A)	0.2					
Max. Anode Voltage (V)	150					
Max. Screen Voltage (V)	150					
Max. Triode Anode Voltage (V)	100					
<u>Triode</u>						
Mutual Conductance (mA/V)	1.8					
Amplification Factor	16.0					
Anode Impedance (Ω)	8,500					
<u>Capacitances (pF)</u>						
Signal grid to all other electrodes except anode	8.0					
Anode to all other electrodes except signal grid.	16.0					
Oscillator grid to all other electrodes except oscillator anode.	15.0					
Oscillator anode to all other electrodes except oscillator grid.	8.0					
			<u>TOP CAP</u> See K1001/AI/5.1			
			<u>DIMENSIONS</u> See K1001/AI/D1			
			Dimension	Min.	Max.	
			A (mm)	-	138	
			B (mm)	-	51	

NOTE

A. $V_c = 100$, $V_{g1} = 0$.

To be performed in addition to those applicable in K1001

	Test Conditions						Test	Limits		No. Tested
	Vf	Va	Vg2	Va0	Vg1	Vg0		Min.	Max.	
a	2.0	0	0	0	0	0	If (A)	0.18	0.22	100% or S
b	2.0	120	120	100	0	0	Ia (mA)	2.6	5.4	100%
c	2.0	120	120	100	-0.5	0	gm (mA/V)	0.65	-	100%
Peak grid swing $\pm 0.5V$. max.										
d	2.0	120	120	100	0	-0.5	Triode gm (mA/V)	1.4	-	100%
Peak grid swing $\pm 0.5V$. max.										
e	2.0	120	120	100	0	0	Iao (mA)	5.2	10.4	100%
f	2.0	120	120	100	0	-15	Ia (mA)	-	1.0	100%
g	2.0	120	120	100	0	-15	Reverse Igo (μA)	-	2.0	100%
h	2.0	120	120	100	-8	0	Ia (mA)	0.01	0.5	100%
j	2.0	120	120	100	-8	0	Reverse Ig1 (μA)	-	2.0	100%